DAEWOO

Service Manual

XGA COLOR MONITOR

CMC-1703B

DAEWOO ELECTRONICS CO., LTD.

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SAFETY PRECAUTIONS

CAUTION: No modifications of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety check and servicing guidelines.

Safety Check

Care should be taken while servicing this analog color display because of the high voltages used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

Fire & Shock Hazard

- Insert an isolation transformer between the analog color display and AC power line before servicing chassis.
- In servicing, pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- All the protective devices must be reinstalled per original design.
- Soldering must be inspected for possible cold solder points, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign materials.

Implosion Protection

Picture tube in this monitor employs integral implosion protection system, but care should be taken to avoid damage and scratching during installation.
Use only same type replacement picture tubes.

IMPORTANT SAFETY NOTICE : There are special components used in analog color display, which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire or other hazards. Do not modify the original design without getting a written permission from DAEWOO ELECTRONICS CO. or this will void the original parts and labor warranty.

X-Radiation

WARNING : The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly, there is no possibility of an X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory recommended level.

NOTE : It is important to use an accurate, periodically calibrated high voltage meter.

- To measure the high voltage, use a high-impedance high-voltage meter.
  Connect(-) to chassis and (+) to the CRT anode button.
- Turn the Contrast & Brightness control fully counterclockwise.
- Measure the high voltage. The high voltage meter should indicate the following factory recommended level.
- If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-Radiation possibility, it is essential to use the specified picture tube.
- The nominal high voltage is 26.5KV or below, and must not exceed 29KV at zero beam current at rated voltage.

GENERAL SAFETY INFORMATION

Terms in the manual

CAUTION Statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING Statements identify conditions or practices that could result in personal injury or loss of life.

Terms as marked on equipment

CAUTION Statements indicate a personal injury hazard not immediately accessible as one reads the marking, or a hazard to properly including the equipment itself.

WARNING Statements indicate a personal injury hazard immediately accessible as one reads the marking

Symbols in the manual

This symbol indicates where applicable cautionary or other information is to be found.

Symbols as marked on equipment

Protective GROUND terminal

High Voltage Warning And Critical Component Warning Label
Following warning label is on the CRT PWB shield case inside the unit.

> **Warning** : This product includes critical mechanical and electrical parts which are essential for X radiation safety. For continued safety, replace critical components indicated in the service manual only with exact replacement parts given in the parts list. Operating high voltage for this product is 29Kv at minimum brightness. Refer to service manual for measurement procedures and proper service adjustments.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual, its supplements and addenda, read and follow the SAFETY PRECAUTIONS of this manual.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 1 of this manual, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in a explosion hazard.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM. etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Discharge the picture tube anode only by: (a) first connecting one end of an insulated clip lead to the degaussing or line grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touching the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.

4. Do not any spray chemicals on or near this instrument or any or its assemblies.

5. Unless specified otherwise in this service manual, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Aceton and 90% (by volume) isopropyl alcohol (90% - 99% strength).

   CAUTION: This is a flammable mixture. Unless specified otherwise in this service manual, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid -state device heat sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Use only the test fixtures specified in this service manual with this instrument.

   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components commonly are called Electrostatically Sensitive (ES) Devices.
The examples of typical ES devices are integrated circuits, some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate enough electrical charges to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate enough electrical charges to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

> **CAUTION :** Be sure that no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate enough static electricity to damage an ES devices).

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron with appropriate tip size and shape that will maintain tip temperature within a 550°F-600°F (288°C-316°C) range.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean.
4. Thoroughly clean the surface to be soldered. Use a small wire-bristle(0.5 inch or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (550°F to 600°F or 288°C to 316°C)
   b. Hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

> **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.

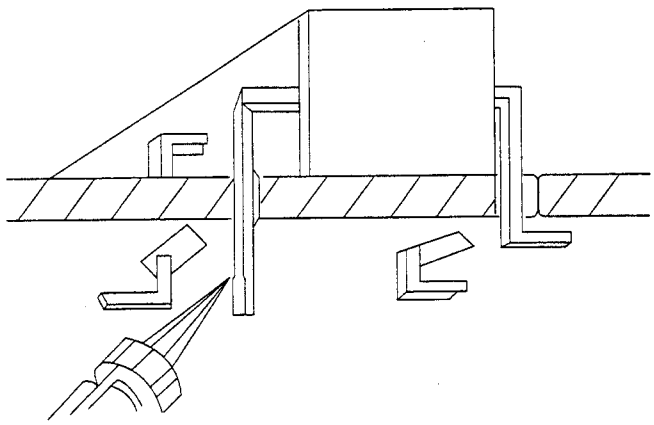


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

IC Removal/Replacement

Some utilized chassis circuit boards have slotted (oblong) holes through which the IC leads are inserted and then bent flat against the circuit foil. When holes are slotted, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 on the page under the title of general soldering guidelines.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with desoldering braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the area).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend the end of each of three leads remaining on the circuit board into a "U" shape.
3. Bend the replacement transistor leads into a "U" shape.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal-to-metal contact, then solder each connection.

Power IC, Transistor or Devices Removal/Replacement

1. Heat and remove all solders from the device leads.
2. Remove the heatsink mounting screw(if applicable).
3. Carefully remove the device from the circuit board.
4. Insert new device in circuit board.
5. Solder each device lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect the solder joints of the two "original" leads on the circuit board copper side. If they are not shiny, reheat them and apply additional solder if necessary.

TECHNICAL INFORMATION

Electrical	
CRT dot pitch	0.28mm dot pitch
Horizontal frequency	30KHz to 64KHz (Automatically)
Vertical frequency	47Hz to 120Hz (Automatically)
Operating temperature	10-40℃/50-104°F
Operating humidity	8-80%
Mechanical	
Cabinet	Molded Plastic Cabinet with detachable tilt & swivel base
Dimension (set with stand)	441.5(H) × 420(W) × 442(D) mm
Weight (net)	17.4 Kg
Controls	Power Switch
	OSD Key (Menu, +(▲), - (▼), select)
	Contrast Control
	Brightness Control
	Vertical Position
	Vertical Size
	Horizontal Phase
	Horizontal Size
	Pincushion
	Trapezoid
	R Gain
	G Gain
	Color Switch
	Manual Degaussing
	Factory Recall
	D.P.M.S Switch

GENERAL INFORMATION

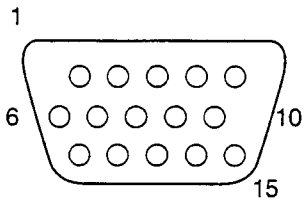
This color monitor automatically scans all horizontal frequencies from 30KHz to 64KHz, and all vertical frequencies from 47Hz to 120Hz. This color monitor adopted the OSD (On Screen Display), it shows the sync polarity and frequency and it provides that easily adjust control. This color monitor supports IBM PC, PC/XT, PC/AT, personal System/2 (PS/2), Apple Macintosh, and compatible users crisp text and vivid color graphics diaplay when using the following graphics adapters : (VGA, 8514/A, Supper VGA, VESA and XGA and Apple Macintosh Video Card). And so, this color monitor has a maximum horizontal resolution of 1280 dots and a maximum vertical resolution of 1024 lines for superior clarity of display.
By accepting analog signal inputs which level is zero to 0.7 Volts. This color monitor can display an unlimited palette of colors depending on the graphics adapter and software being used.

Abbreviations

ADJ	Adjustment
AFC	Automatic Frequency Control
CRT	Cathode Ray Tube
Def	Deflection
D.Y	Deflection Yoke
FBT	Flyback Transformer
H.SYNC	Horizontal Synchronization
OSC	Oscillator
P.S.U	Power Supply Unit
PWA	Printed Circuit Board Wiring Assembly
R.G.B	Red, Green, Blue
V.Sync	Vertical Synchronization

PIN CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND
6	GND-Red
7	GND-Green
8	GND-Blue
9	+5V Load (optional)
10	GND-H.Sync
11	GND
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data clock (SCL)



Arrangement of 15-pin D-sub connector

CAUTIONS FOR ADJUSTMENT AND REPAIR

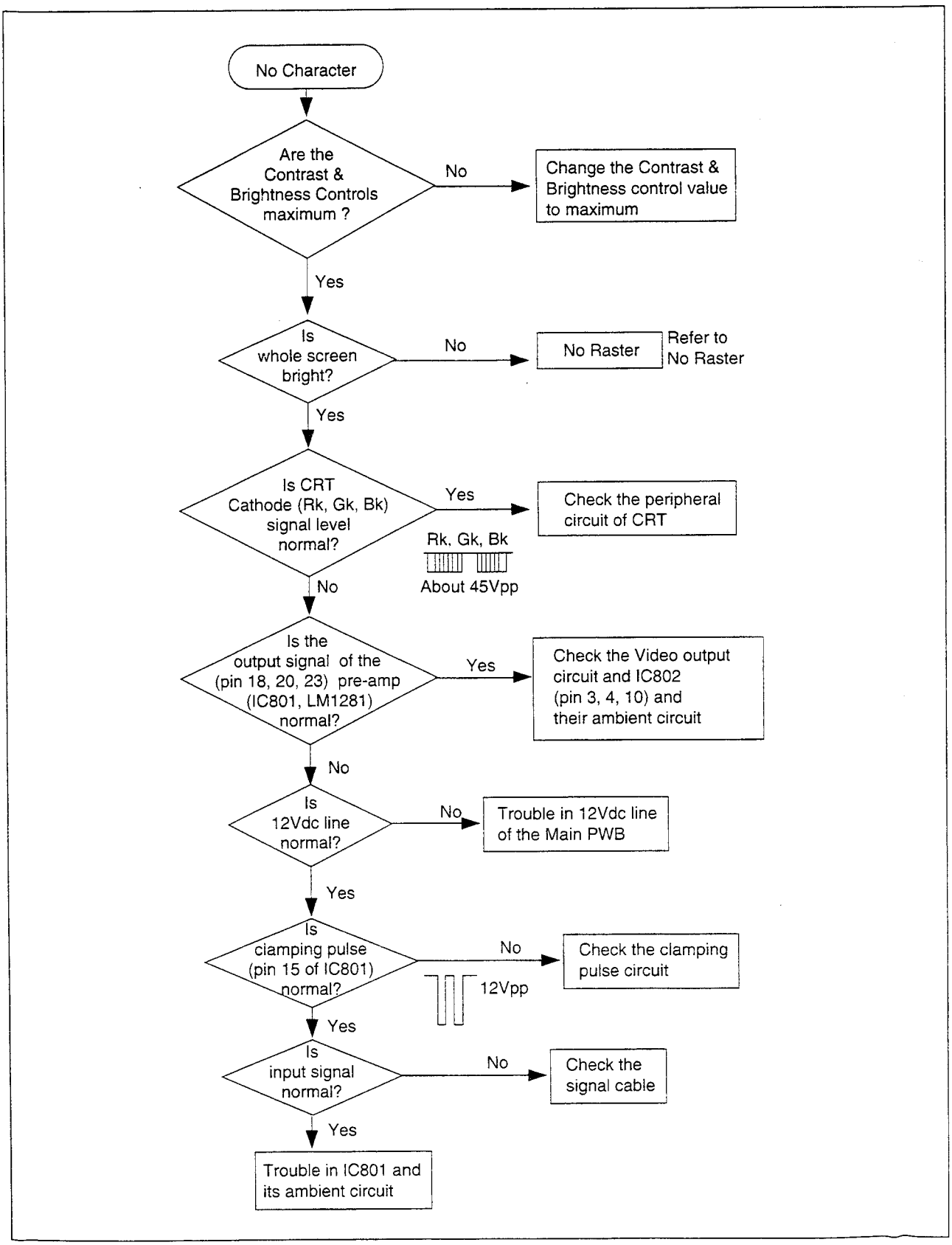
- Degaussing is always required when adjusting purity or convergence.
- The white balance adjustment has been done by a color analyzer in factroy. The adjustment procedure, described in the service manual is made by a visual check.
- Allow 20 minutes warm-up time for the display before checking or adjusting only electrical specification or function.
- Reform the leadwire after any repair work.

Caution For Servicing

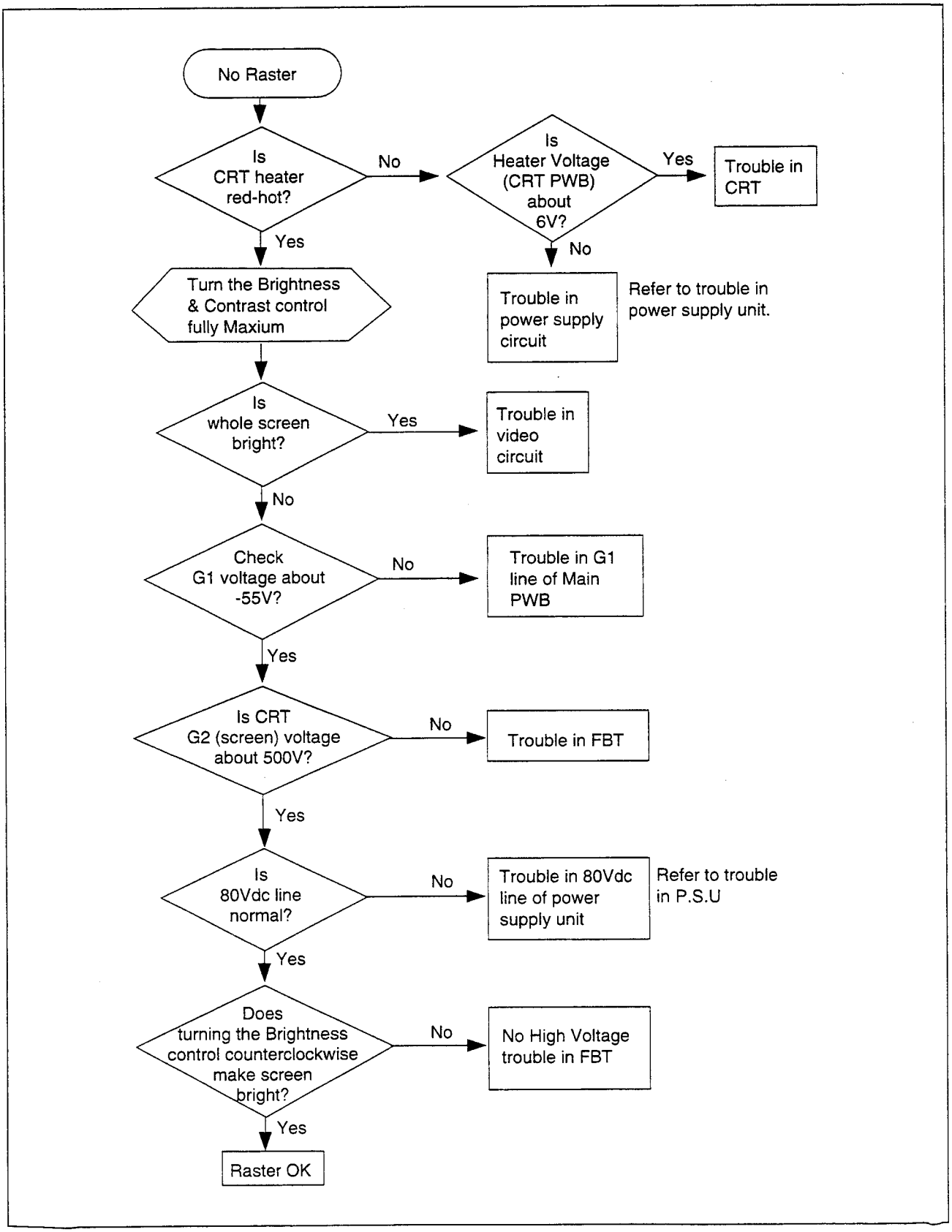
- In case of servicing or replacing CRT, high voltage sometimes remains in the anode of the CRT. Completely discharge high voltage before servicing or replacing CRT to prevent a shock to the serviceman.

TROUBLESHOOTING HINTS

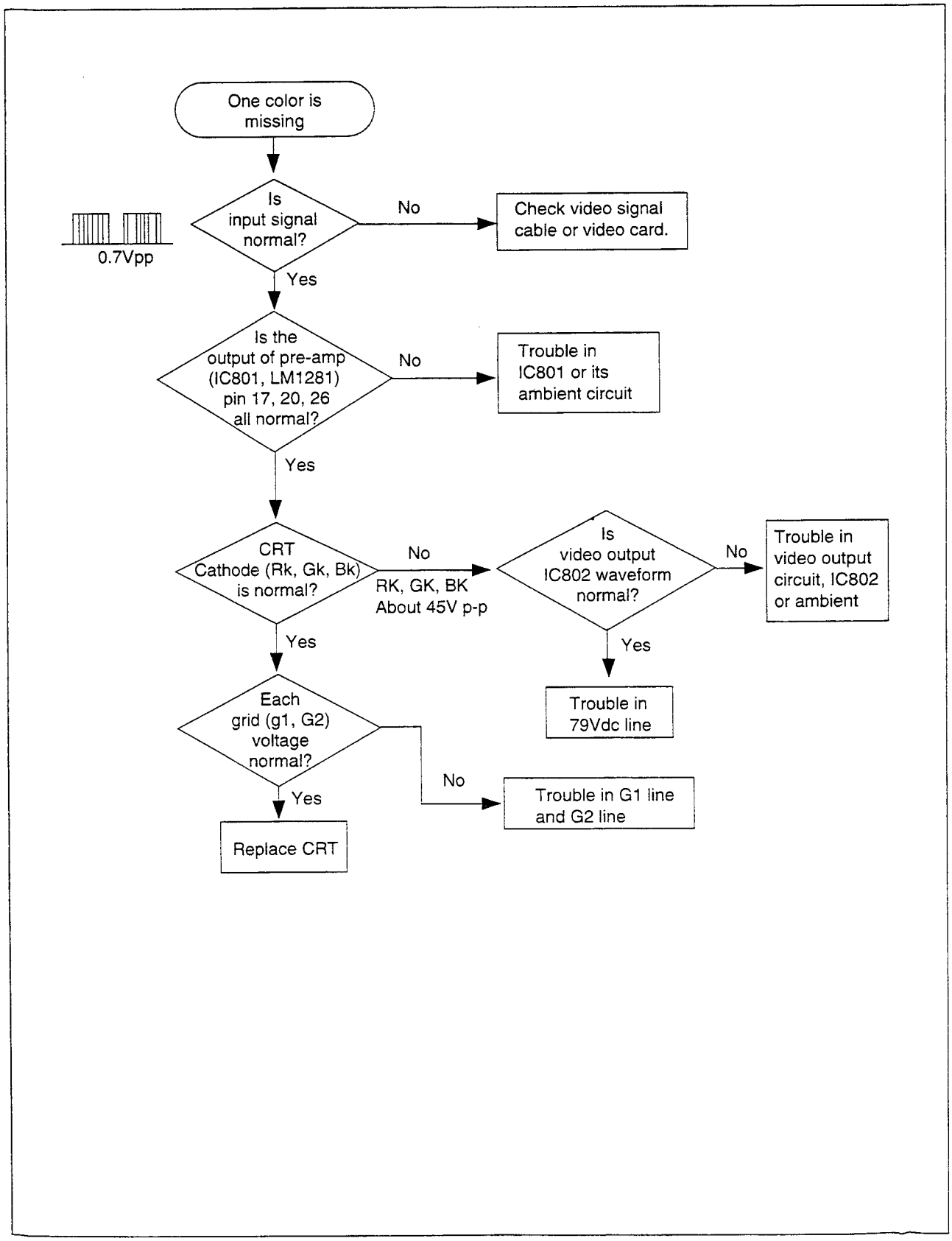
1. No Character



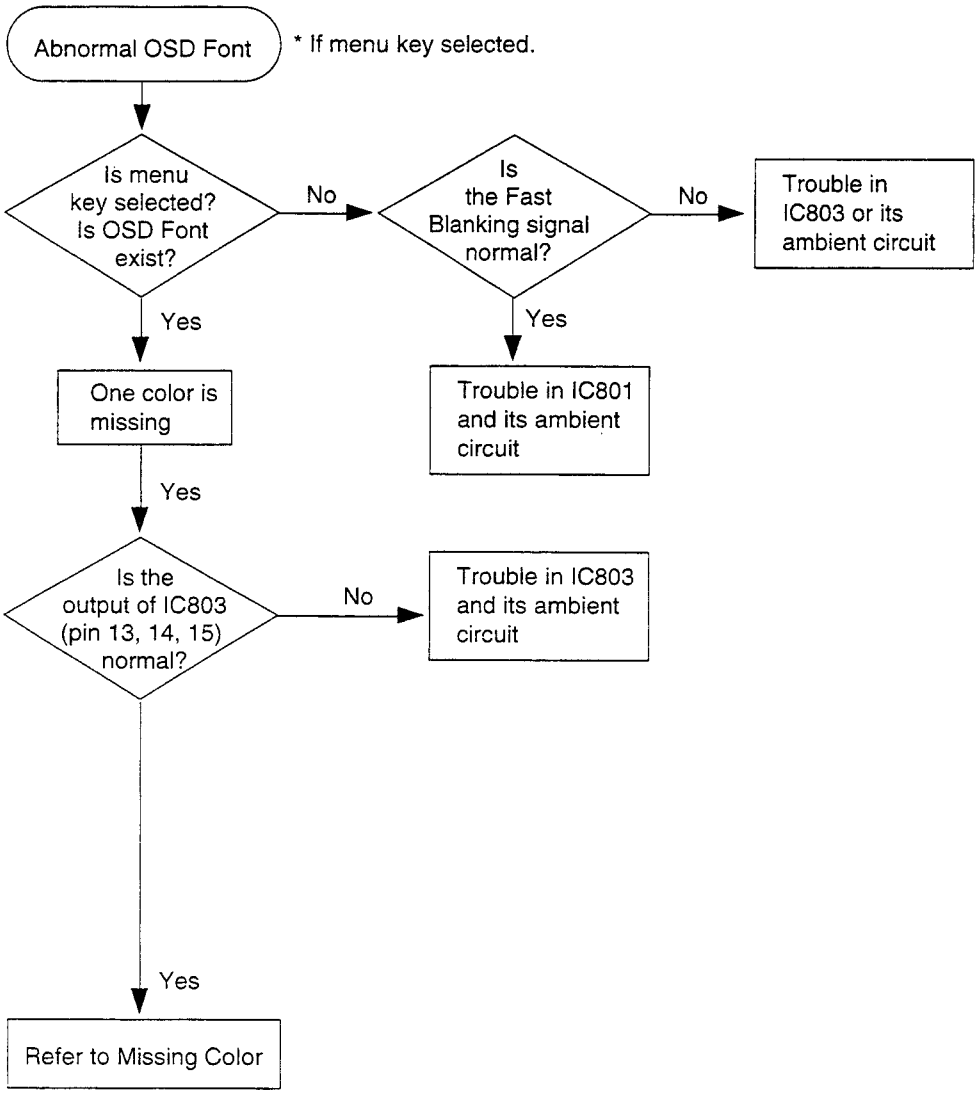
2. No Raster


No Raster
Is CRT heater red-hot?
No
Is Heater Voltage (CRT PWB) about 6V?
Yes
Trouble in CRT
No
Trouble in power supply circuit
Refer to trouble in power supply unit.
Yes
Turn the Brightness & Contrast control fully Maxium
Is whole screen bright?
Yes
Trouble in video circuit
No
Check G1 voltage about -55V?
No
Trouble in G1 line of Main PWB
Yes
Is CRT G2 (screen) voltage about 500V?
No
Trouble in FBT
Yes
Is 80Vdc line normal?
No
Trouble in 80Vdc line of power supply unit
Refer to trouble in P.S.U
Yes
Does turning the Brightness control counterclockwise make screen bright?
No
No High Voltage trouble in FBT
Yes
Raster OK

3. A Missing Color

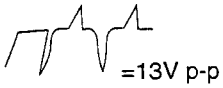


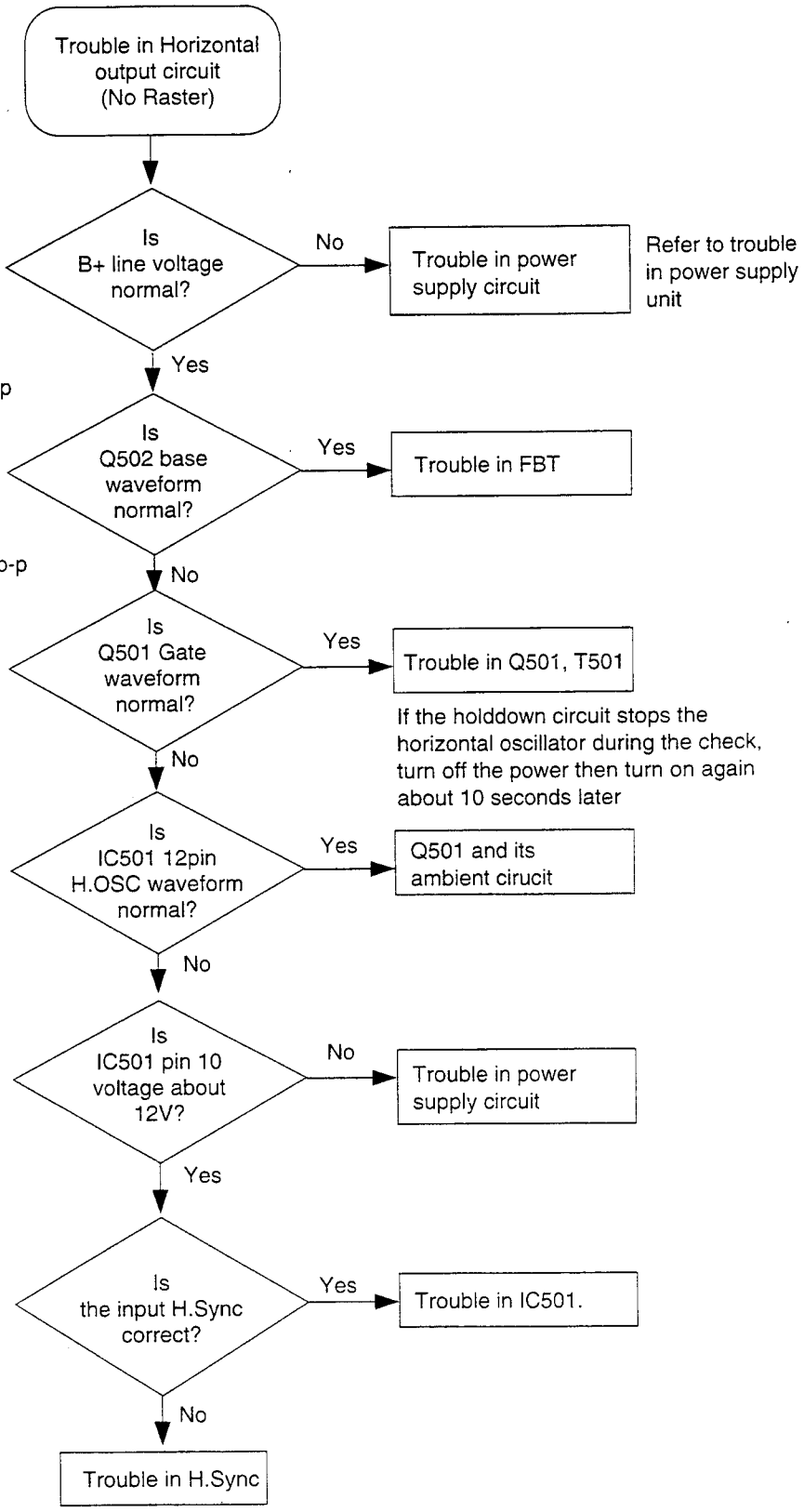
4. Abnormal OSD Font


Abnormal OSD Font
* If menu key selected.
Is menu key selected? Is OSD Font exist?
No
Is the Fast Blanking signal normal?
No
Trouble in IC803 or its ambient circuit
Yes
Yes
One color is missing
Trouble in IC801 and its ambient circuit
Yes
Is the output of IC803 (pin 13, 14, 15) normal?
No
Trouble in IC803 and its ambient circuit
Yes
Refer to Missing Color

5. Horizontal Output Circuit

MODE (KHz)	TP2 Voltage
VGA (31.5KHz)	67V
S.VGA(37.8KHz)	80V
VESA S.VGA(48KHz)	107.9V
XGA(56KHz)	116.9V
Hf=64KHz	134.4V



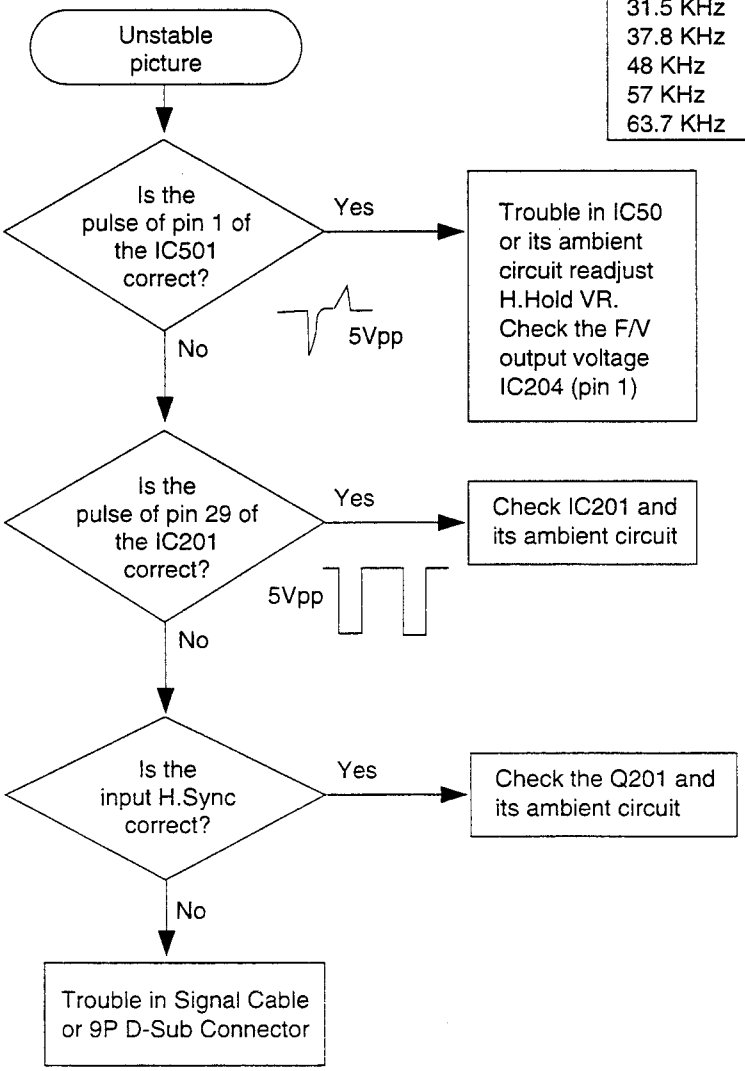


6. Unstable Picture

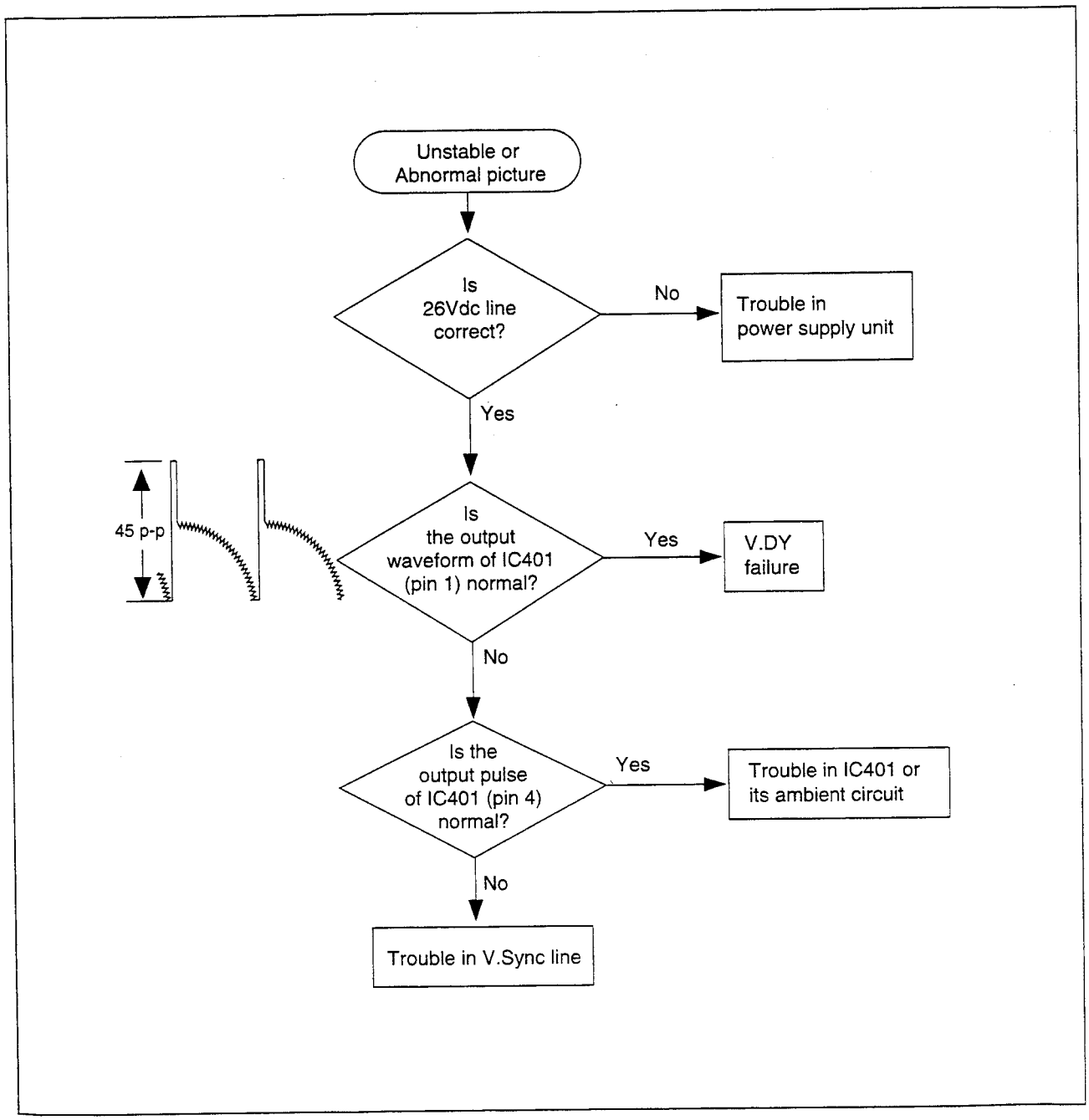
6.1 Horizontal

*** F /V Voltage**

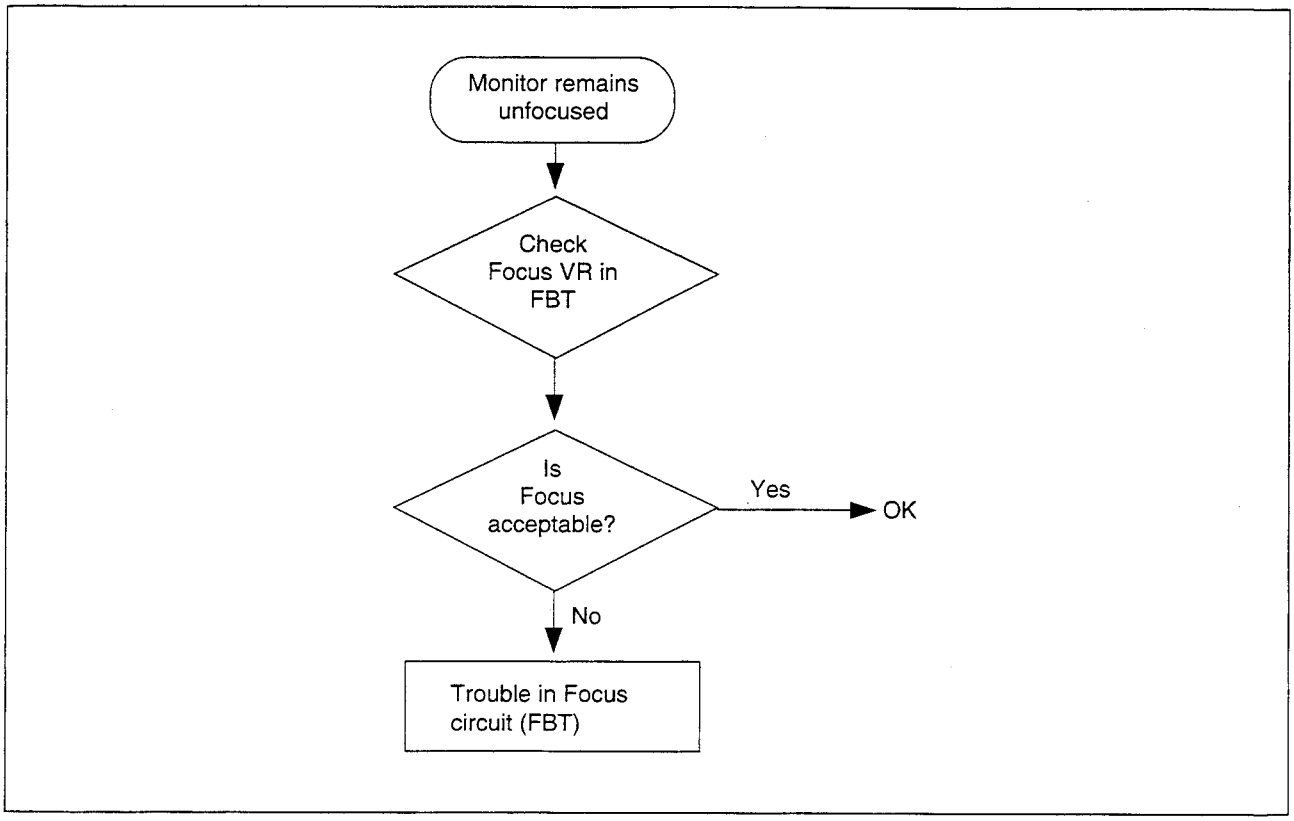
Mode (KHz)	F/V (V)
31.5 KHz	4.56
37.8 KHz	6.49
48 KHz	9.60
57 KHz	14.30
63.7 KHz	17.19


Unstable picture
Is the pulse of pin 1 of the IC501 correct?
Yes
Trouble in IC50 or its ambient circuit readjust H.Hold VR. Check the F/V output voltage IC204 (pin 1)
5Vpp
No
Is the pulse of pin 29 of the IC201 correct?
Yes
Check IC201 and its ambient circuit
5Vpp
No
Is the input H.Sync correct?
Yes
Check the Q201 and its ambient circuit
No
Trouble in Signal Cable or 9P D-Sub Connector

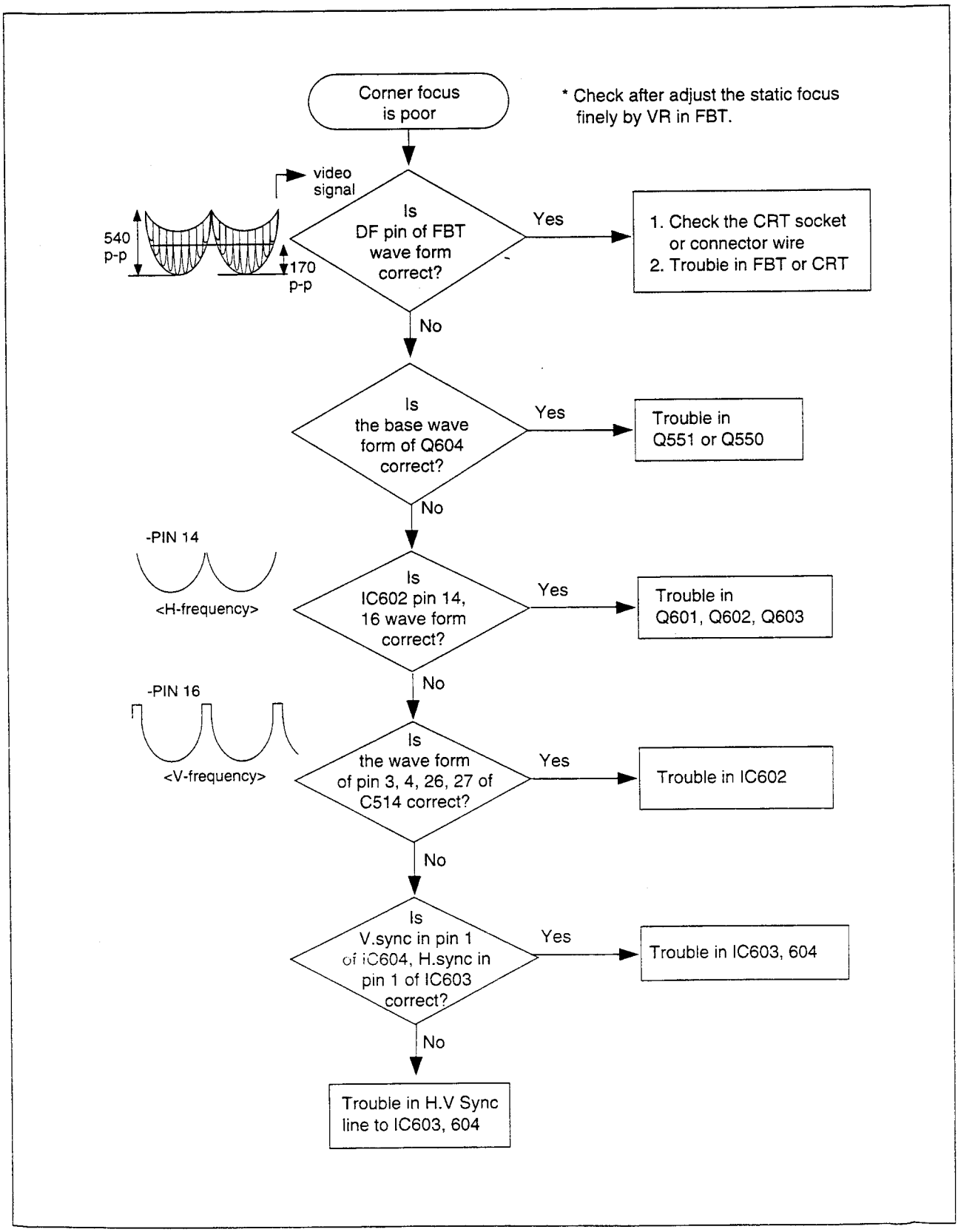
6-2.V.OSC/Deflection Circuit



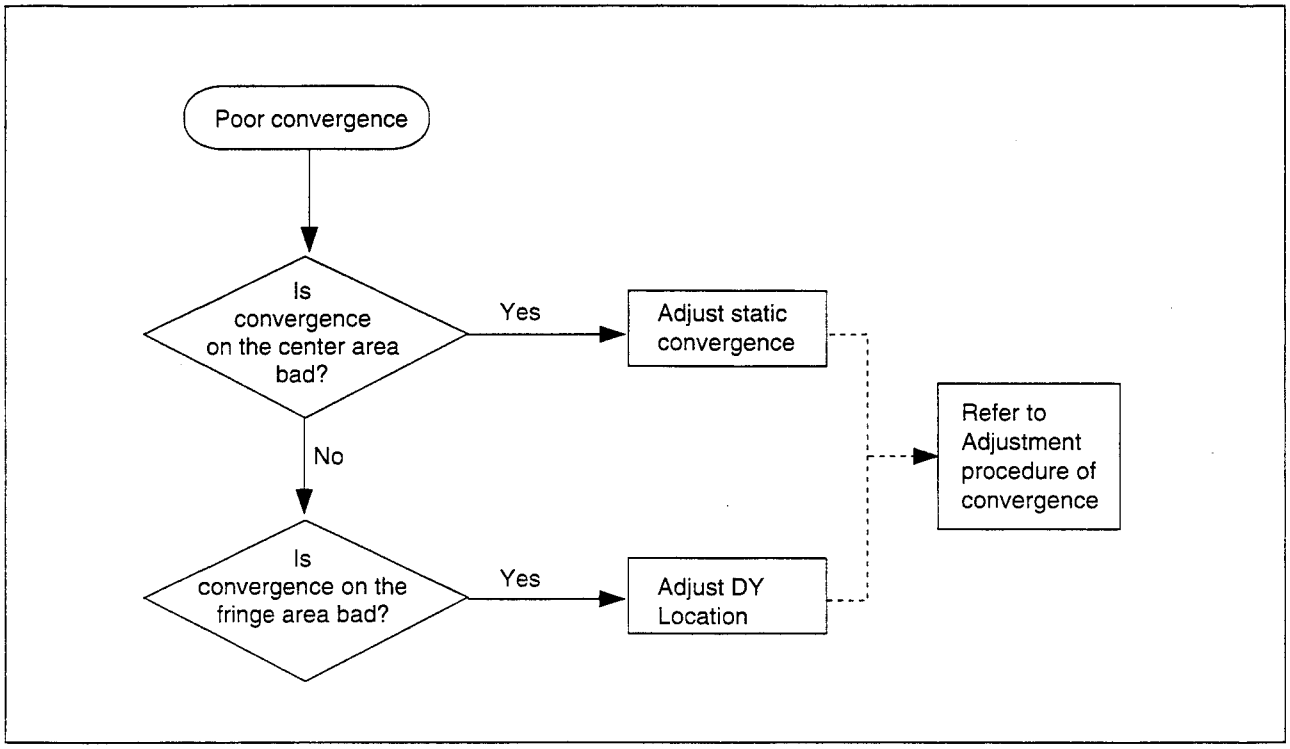
7. Focus


Monitor remains unfocused
Check Focus VR in FBT
Is Focus acceptable?
Yes
OK
No
Trouble in Focus circuit (FBT)

7-1. Dynamic Focus


Corner focus is poor
* Check after adjust the static focus finely by VR in FBT.
video signal
540 p-p
170 p-p
Is DF pin of FBT wave form correct?
Yes
1. Check the CRT socket or connector wire
2. Trouble in FBT or CRT
No
Is the base wave form of Q604 correct?
Yes
Trouble in Q551 or Q550
No
-PIN 14
<H-frequency>
Is IC602 pin 14, 16 wave form correct?
Yes
Trouble in Q601, Q602, Q603
No
-PIN 16
<V-frequency>
Is the wave form of pin 3, 4, 26, 27 of C514 correct?
Yes
Trouble in IC602
No
Is V.sync in pin 1 of IC604, H.sync in pin 1 of IC603 correct?
Yes
Trouble in IC603, 604
No
Trouble in H.V Sync line to IC603, 604

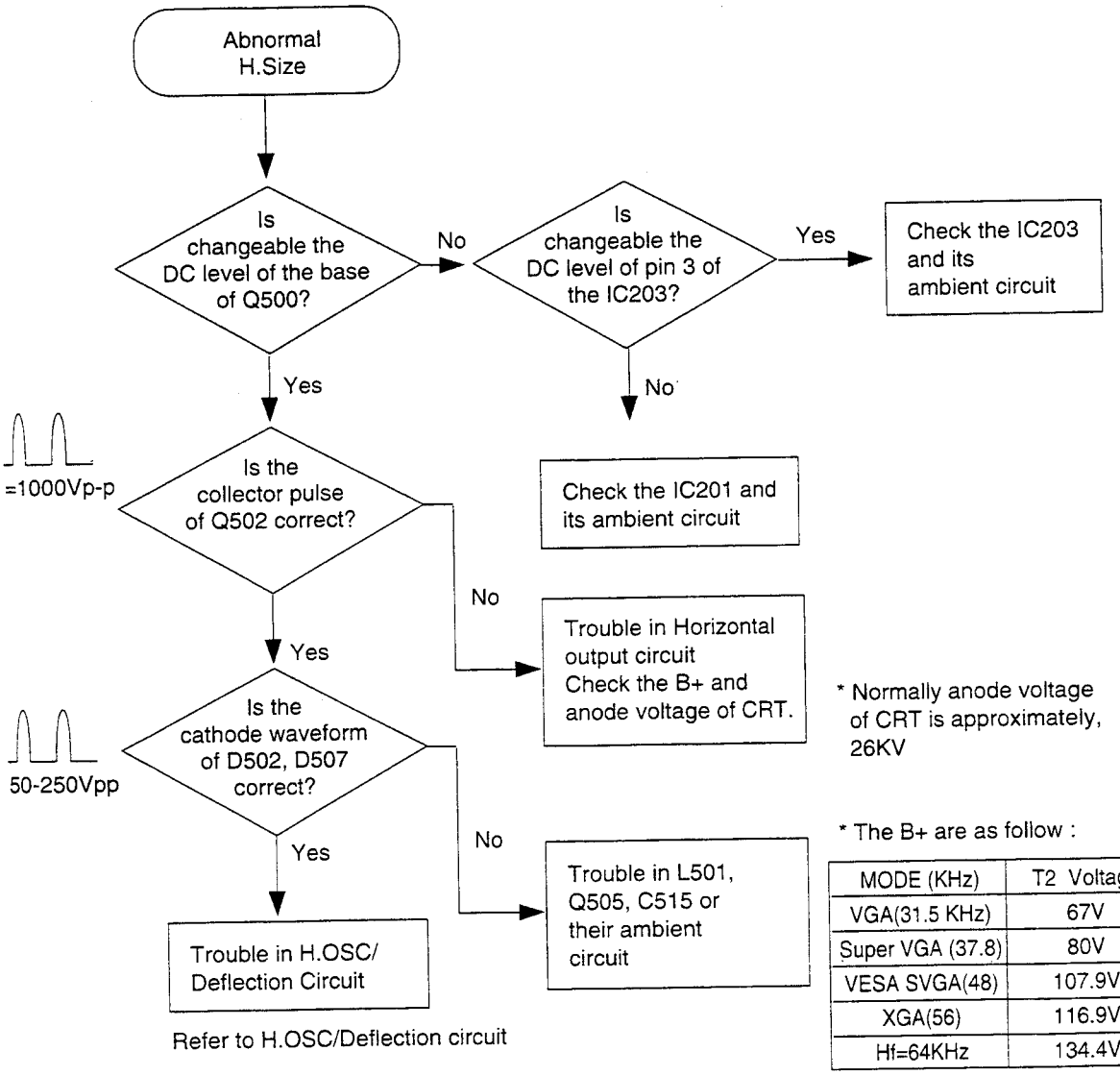
8. Convergence



9. Abnormal Picture

9.1 Horizontal Size

* At first, adjust controls in the OSD Menu

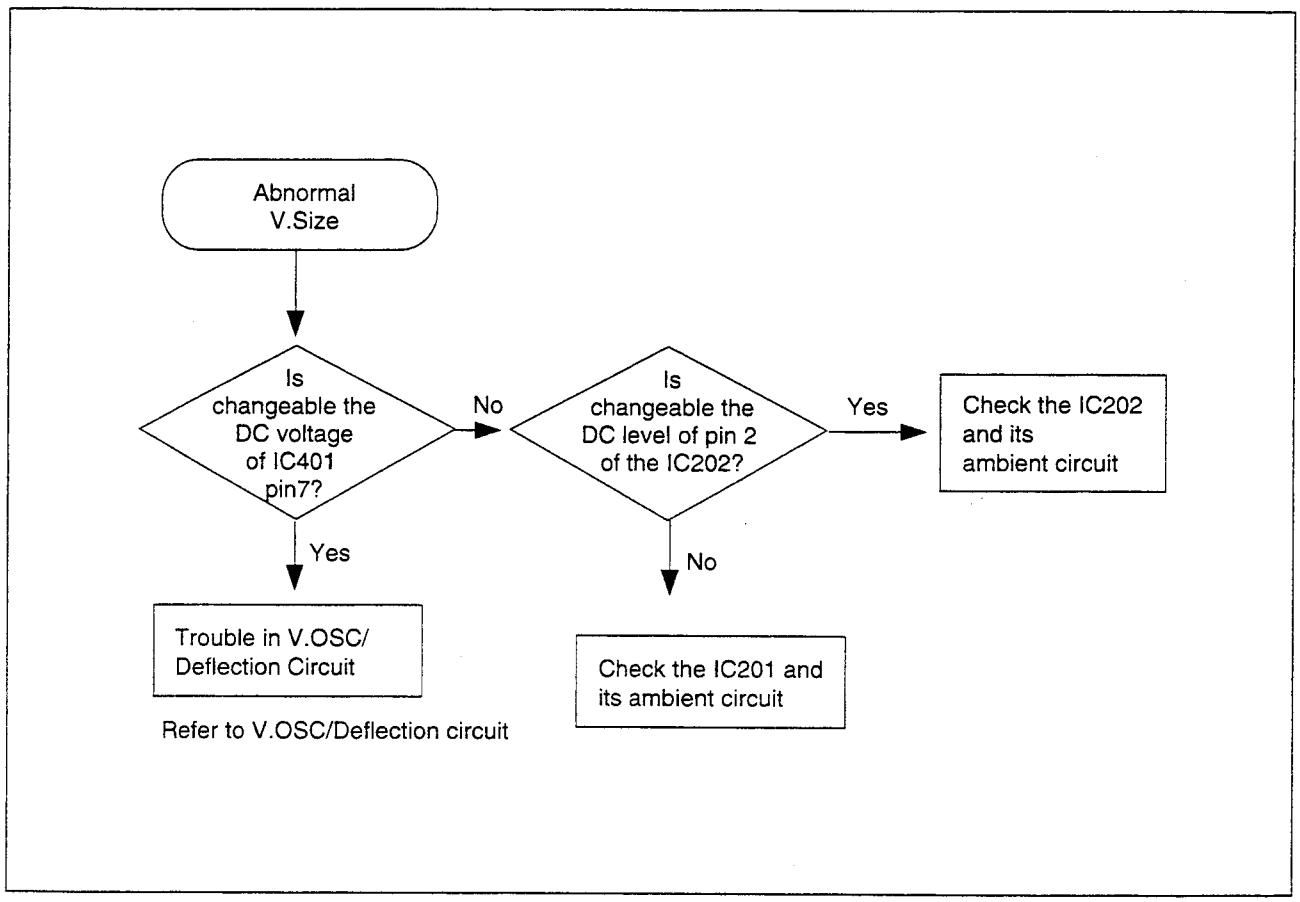

Abnormal H.Size
Is changeable the DC level of the base of Q500?
No
Is changeable the DC level of pin 3 of the IC203?
Yes
Check the IC203 and its ambient circuit
Yes
No
=1000Vp-p
Is the collector pulse of Q502 correct?
Check the IC201 and its ambient circuit
No
Trouble in Horizontal output circuit Check the B+ and anode voltage of CRT.
Yes
50-250Vpp
Is the cathode waveform of D502, D507 correct?
No
Trouble in L501, Q505, C515 or their ambient circuit
Yes
Trouble in H.OSC/ Deflection Circuit
Refer to H.OSC/Deflection circuit

* Normally anode voltage of CRT is approximately, 26KV

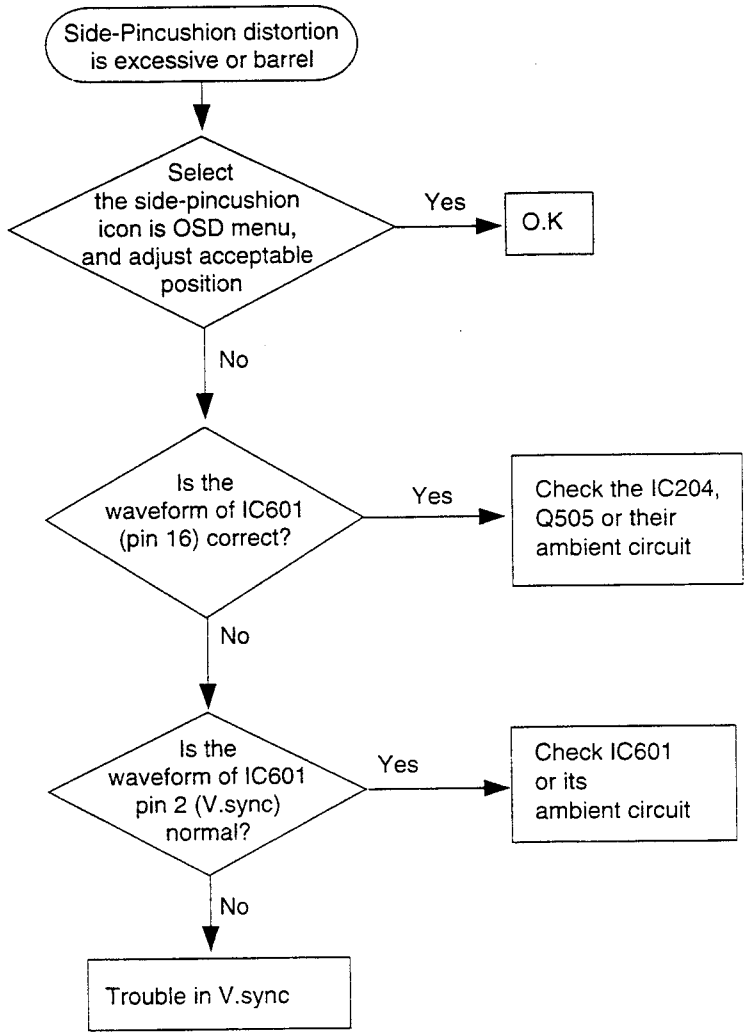
* The B+ are as follow :

MODE (KHz)	T2 Voltage
VGA(31.5 KHz)	67V
Super VGA (37.8)	80V
VESA SVGA(48)	107.9V
XGA(56)	116.9V
Hf=64KHz	134.4V

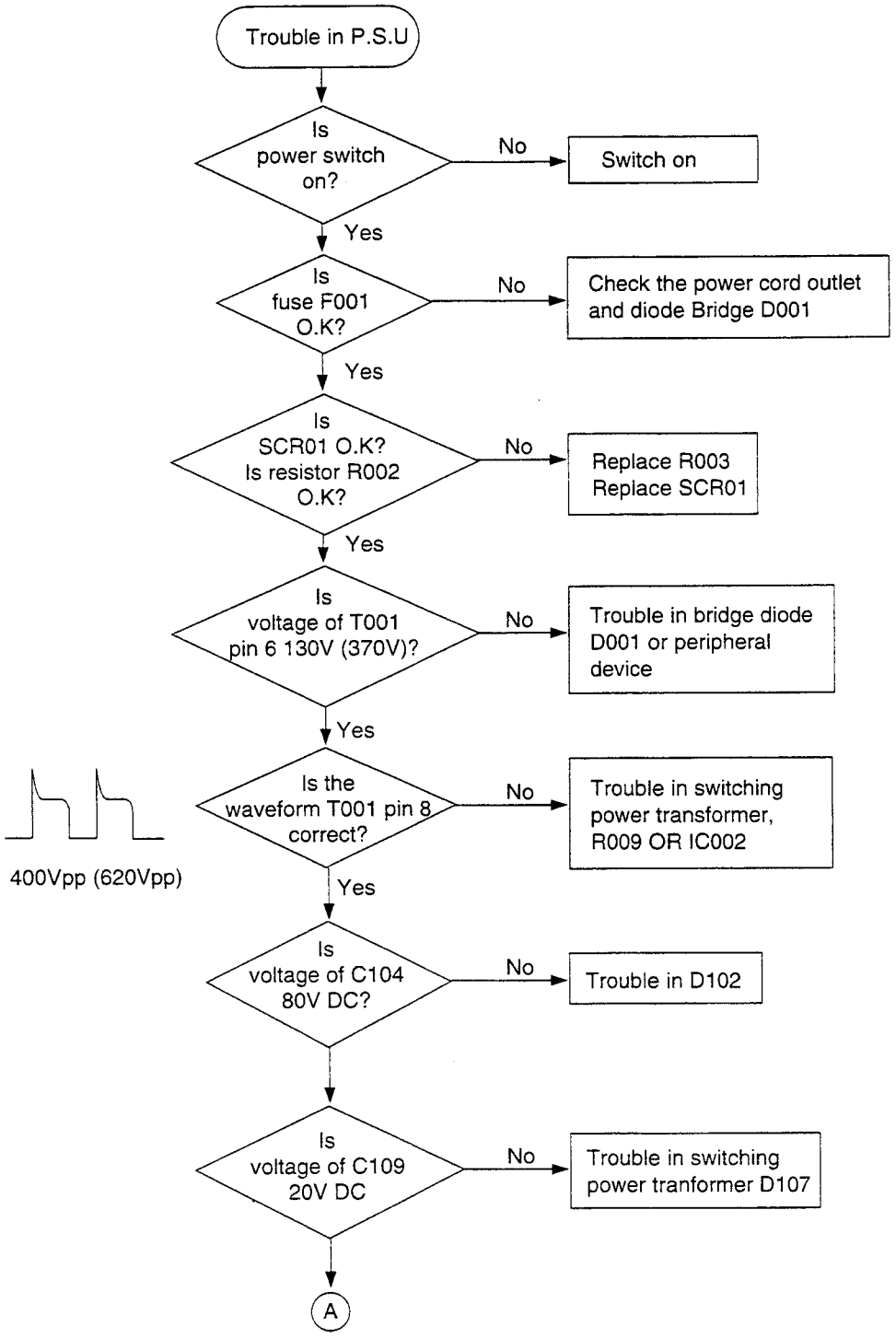
9.2 Vertical Size

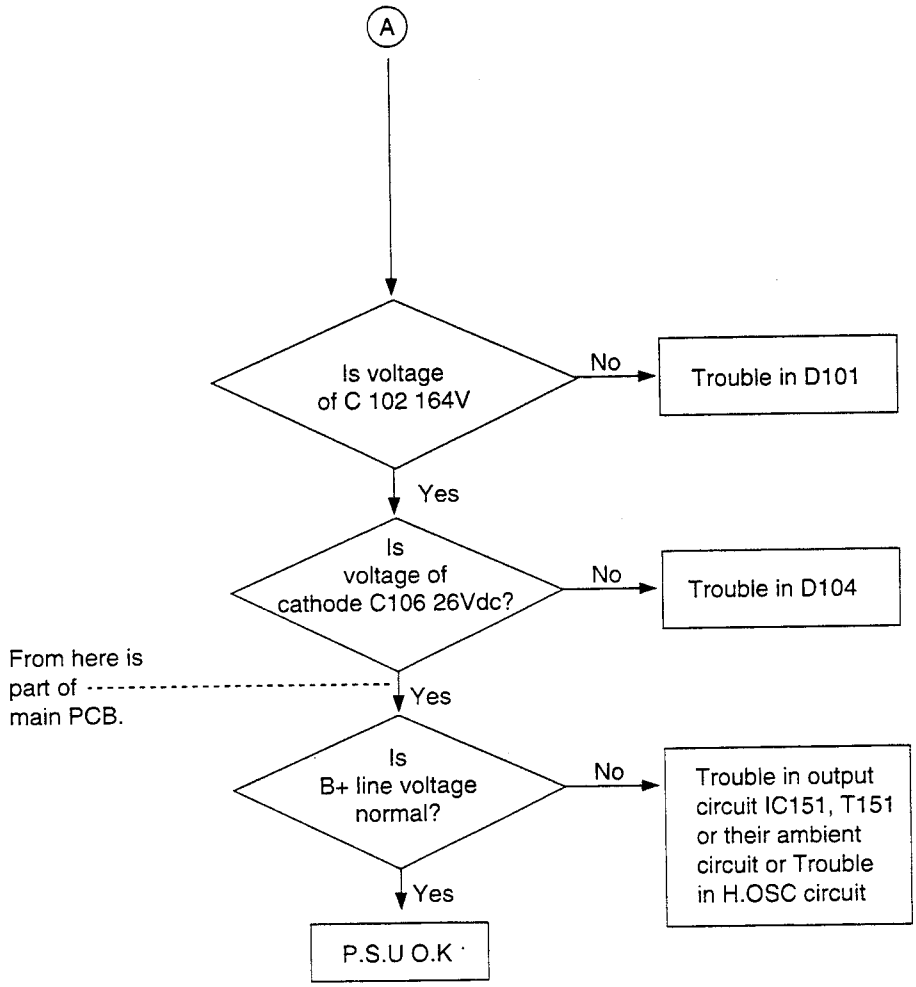

Abnormal V.Size
Is changeable the DC voltage of IC401 pin7?
No
Is changeable the DC level of pin 2 of the IC202?
Yes
Check the IC202 and its ambient circuit
Yes
No
Trouble in V.OSC/ Deflection Circuit
Refer to V.OSC/Deflection circuit
Check the IC201 and its ambient circuit

10. Side-Pincushion Circuit


Side-Pincushion distortion is excessive or barrel
Select the side-pincushion icon is OSD menu, and adjust acceptable position
Yes
O.K
No
Is the waveform of IC601 (pin 16) correct?
Yes
Check the IC204, Q505 or their ambient circuit
No
Is the waveform of IC601 pin 2 (V.sync) normal?
Yes
Check IC601 or its ambient circuit
No
Trouble in V.sync

11. Power Supply Unit (P.S.U)




A
Is voltage of C 102 164V
No
Trouble in D101
Yes
Is voltage of cathode C106 26Vdc?
No
Trouble in D104
From here is part of main PCB.
Yes
Is B+ line voltage normal?
No
Trouble in output circuit IC151, T151 or their ambient circuit or Trouble in H.OSC circuit
Yes
P.S.U O.K

ALIGNMENT PROCEDURE

Standard Adjustment Conditions

1. Power source voltage : AC 120V, 60Hz
2. Aging : Take at least 20 minutes warm-up time.
3. Signals
   Video : Analog 0.7Vpp 75Ω terminal positive polarity
   Synchronizing : TTL level Negative/Positive Separate/Composite
   Deflection frequency
   Horizontal Frequency : 30 KHz - 64KHz
   Vertical Frequency : 47Hz - 120Hz

Pre-Adjustment

1. B+ Adjustment
   Adjust V151 for 134Vdc±0.5Vdc between TP2 and ground at 64KHz mode.
2. H.OSC Adjustment (horizontal hold)
   Adjust V501 for horizontal free running frequency.
   Using Electrolytic capacitor (about 1uF 50V) short TP1 and ground.
   After adjusting, disconnect capacitor between TP1 and ground.
3. Check scan B+ again, if not corect, adjust V151 in the same manner of item 1.

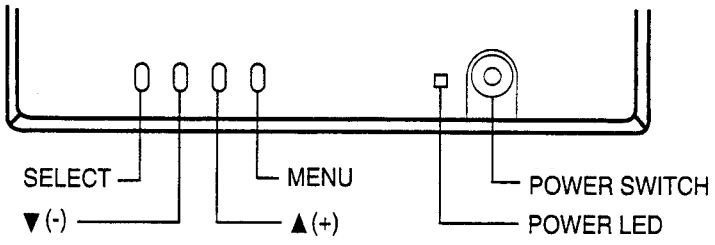
Main Adjustment

1. Setting the Controls
   Set the value of items as following.
   Contrast : Max. (OSD value up to 255)
   Brightness : Center (Set the OSD value to 127)
2. H.size, V.size, H.phase, V.position, Pincushion, Trapezoid Controls
   Receive the cross hatch pattern of Factory preset mode.
   H.Size, V.size, H.phase, V.position, Pincushion, Trapezoid are adjusted at each mode.
   In Factory, Auto Alignment was done at each mode. Therefore, Factory preset mode has it's own value according to each control.
3. Focus
   (a) Set brightness control to center and contrast control to MAX.
   (b) Receive all "H" character pattern of 56KHz mode signal.
   (c) Adjust the Focus control of FBT to obtain best Focus (static focus and Dynamic focus).
4. Geometric Distortion Adjustment.
   (a) Receive the cross hatch pattern of 64KHz mode signal.
   (b) Pin balance, Pin center, Pin corner, Parallelogram are adjusted the best geometric status.
5. White Balance Adjustment
   (a) Preset Controls
   Main PWB
   Internal Contrast : center
   CRT PWB
   R.G.B Bias : Min.
   R.G Gain : center (in OSD Control Menu)

(b) Receive a full white pattern of VGA mode signal.
(c) Adjust screen VR of FBT when back raster just appears.
(d) Adjust the external contrast control the brightness to be approx. 5 foot-lambert.
And adjust the R.G.B bias control to get the color coordinate in x=0.281 $\pm$0.03, y=0.311 $\pm$0.03.
(e) Adjust the contrast to control to its maximum position.
(f) Adjust R.G gain (in Control Menu) control to get the color coordinate in x=0.281 $\pm$0.03, y=0.311 $\pm$0.03
(g) Receive the small square pattern of VGA mode signal.
(h) Adjust the sub-contrast VR the brightness to be 40 foot-lambert.
(I) Check that the white balance is satisfactory at any position of the contrast state.
If the white balance is not satisfactory, readjust the white balance.

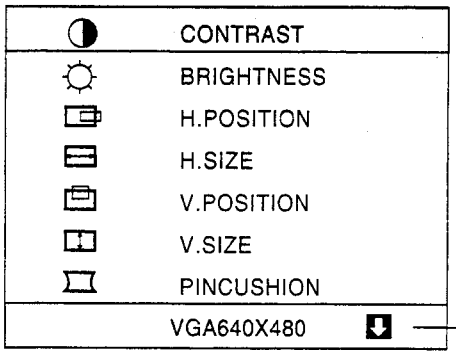
6. Static Convergence Adjustment
(a) Apply a magenta cross hatch pattern on display
(b) Adjust the focus from the best over all focus on the display.
Also adjust the brightness to the desired condition
(c) Vertical red and blue lines are converged by varying the angle between the two tabs of the 4-pole magnets.
(d) Horizontal red and blue lines are converged by varing the tabs together, keeping the angle between them constant.
(e) Apply a white cross hatch pattern on display.
(f) Vertical green and magenta lines are converged by varing the the angle between the two tabs of the 6-pole magnets.
(g) Horizontal green and magenta lines are converged by varing the tabs together, keeping the angle between them constant.

OPERATION & ADJUSTMENT



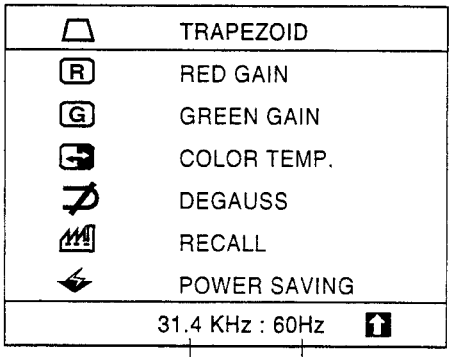
CONTROL MENU

<Control Menu 1>



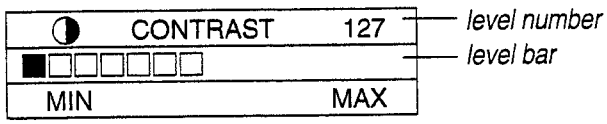
Resolution of the displayed mode

<Control Menu 2>



Vertical Frequency of the displayed mode

Horizontal Frequency of the displayed mode

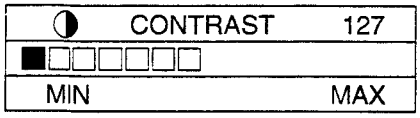
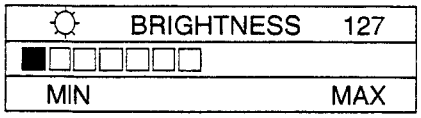
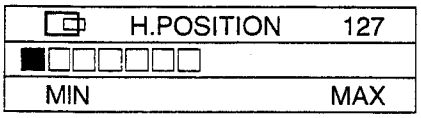
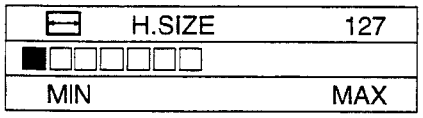
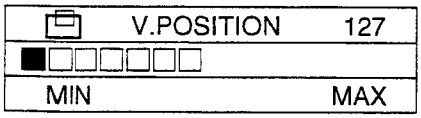
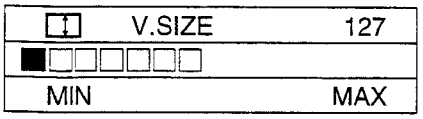
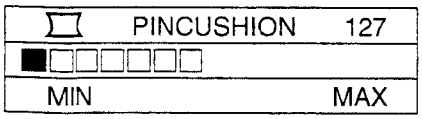
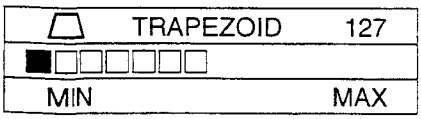
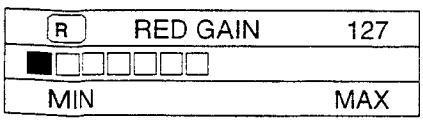


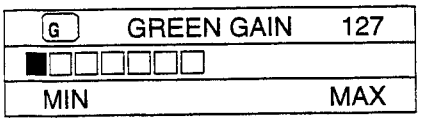
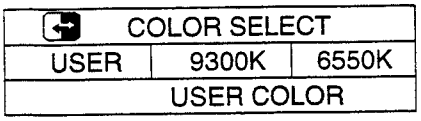
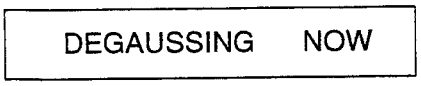
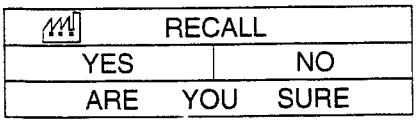
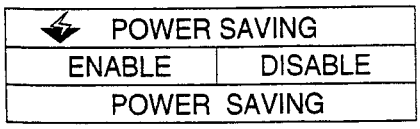
<Function Window Sample>

The level number and level bar change 0 to 255 step when user activates ▲(+) / ▼(-).

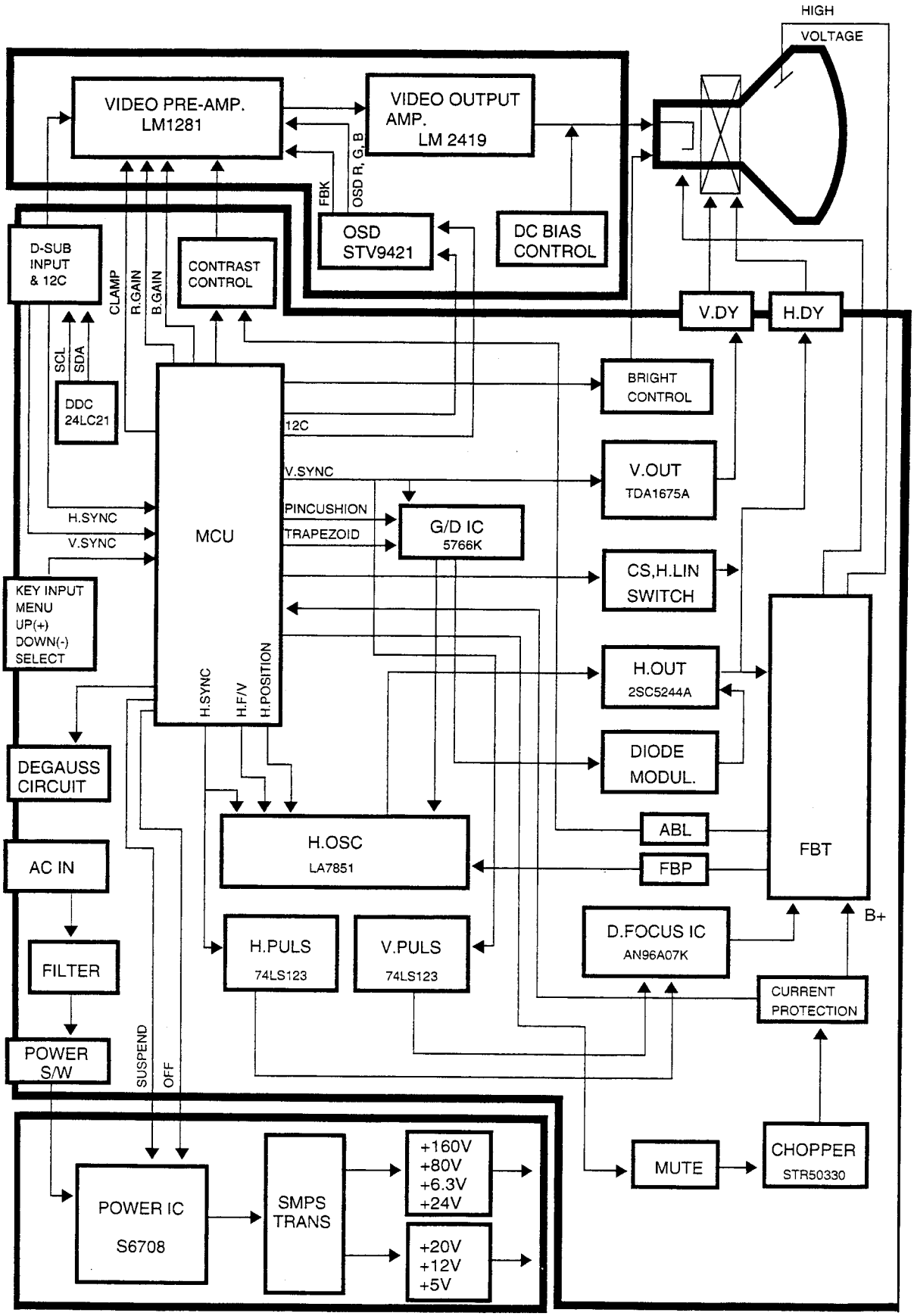
CONTROL	FUNCTION
POWER SWITCH	This switch is used to turn the monitor on or off.
POWER LED	The light of POWER LED changes according to each state. ● on mode : green ● power saving mode — suspend mode : amber — off mode : red
MENU	Every time you press this button, the ***Control Menu 1*** and the ***Control Menu 2*** appear in order. When you press it again, the ***Control Menu 2*** disappears. After its selection on the ***Function Window***, the screen disappears, too (Pressing **SELECT** on the ***Control Menu*** displays the ***Function Window***). The button is used to cancel your select function on the ***Function Window***. The OSD screen will disappear after 8 seconds if no adjustment is performed.
▲ (+)	a) When you press this button on the ***Control Menu***, the Yellow Bar of the ***Control Menu*** shifts to the previous function and the function is chosed by **SELECT**. b) The button is used to increase the value of any selected function on the ***Function Window***. c) Pressing the button increases screen contrast when the OSD screen isn't displayed.
▼ (-)	a) When you pess this button on the ***Control Menu***, the Yellow Bar of the ***Control Menu*** shifts to the next function and the function is chosed by **SELECT**. b) The button is used to decrease the value of any selected function on the ***Function Window***. c) Pressing the button decreases screen contrast when the OSD screen isn't displayed.
SELECT	a) This button is used to confirm the selected function on the ***Control Menu***. b) Pressing the button displays the next ***Function Window*** at any ***Function Window*** (from **CONTRAST** to **G GAIN**).

FUNCTION WINDOW

FUNCTION	DESCRIPTION
	Adjust the contrast of intensities, the difference between light and dark areas on the screen.
	Adjust the brightness of the entire display.
	Adjust the position of the display horizontally (left or right).
	Adjust the display width (horizontal size).
	Adjust the position of the display vertically (up or down).
	Adjust the display height (vertical size).
	Adjust the side pincushion/barrel of the display. ● Image turns to by ▲ (+). ● Image turns to by ▼ (-).
	Adjust the trapezoid of the display. ● Image turns to by ▲(+). ● Image turns to by ▼(-).
	Adjust the red gain of the display.

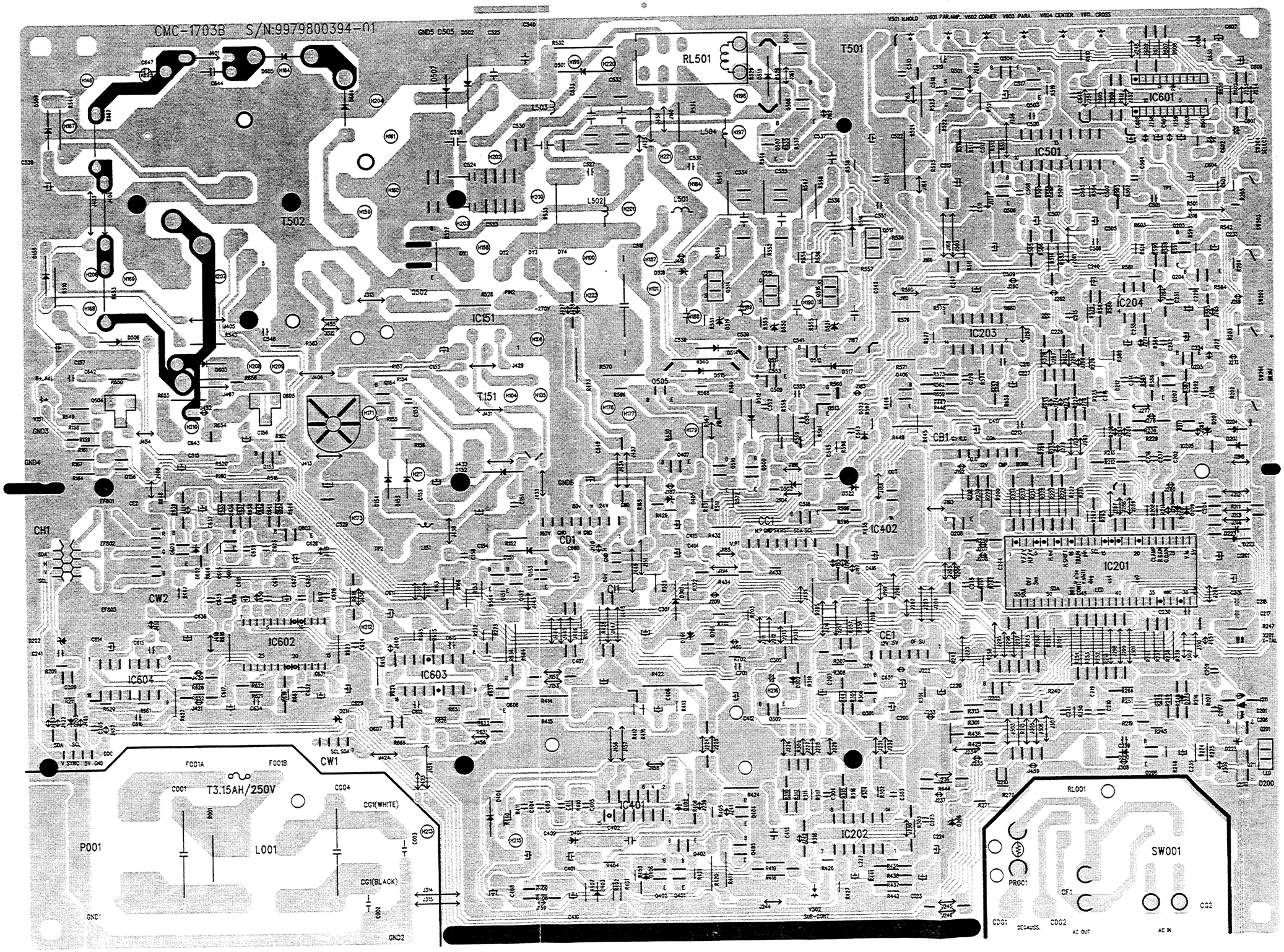
FUNCTION	DESCRIPTION
	Adjust the green gain of the display.
	This function is used to select the Factory Preset Color Values (9300K and 6550K) and the User Setting Color Value (toggle by ▲ (+) / ▼ (-)). Press **SELECT** to confirm any chosed Color Value. If you want to have the User Setting Color, first adjust **R/G GAIN.** 9300K/6550K means the White Temperature Value. 6550k may not have the exact Color Temperature Value.
	To degauss the monitor, use this function. As soon as **SELECT** is pressed, the monitor is degaussed.
	This function is used to recall the factory preset mode that corresponds to the current screen. Press ▲(+) / ▼ (-) to select Yes or No and confirm by pressing **SELECT**.
	This function is used to select power management function. Press ▲(+) / ▼ (-) to select ENABLE or DISABLE and confirm by pressing **SELECT**.

BLOCK DIAGRAM

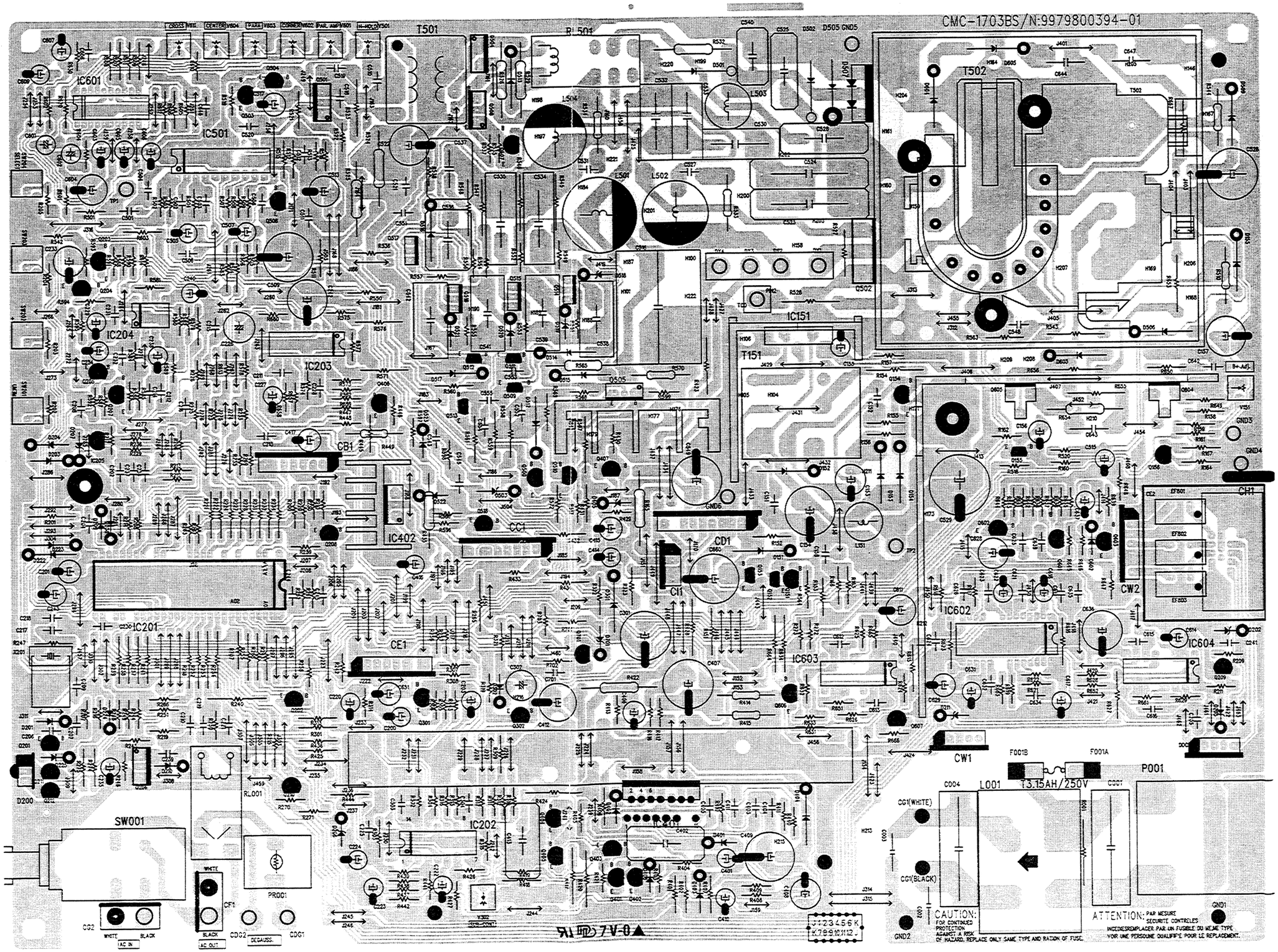


PCB LAYOUT

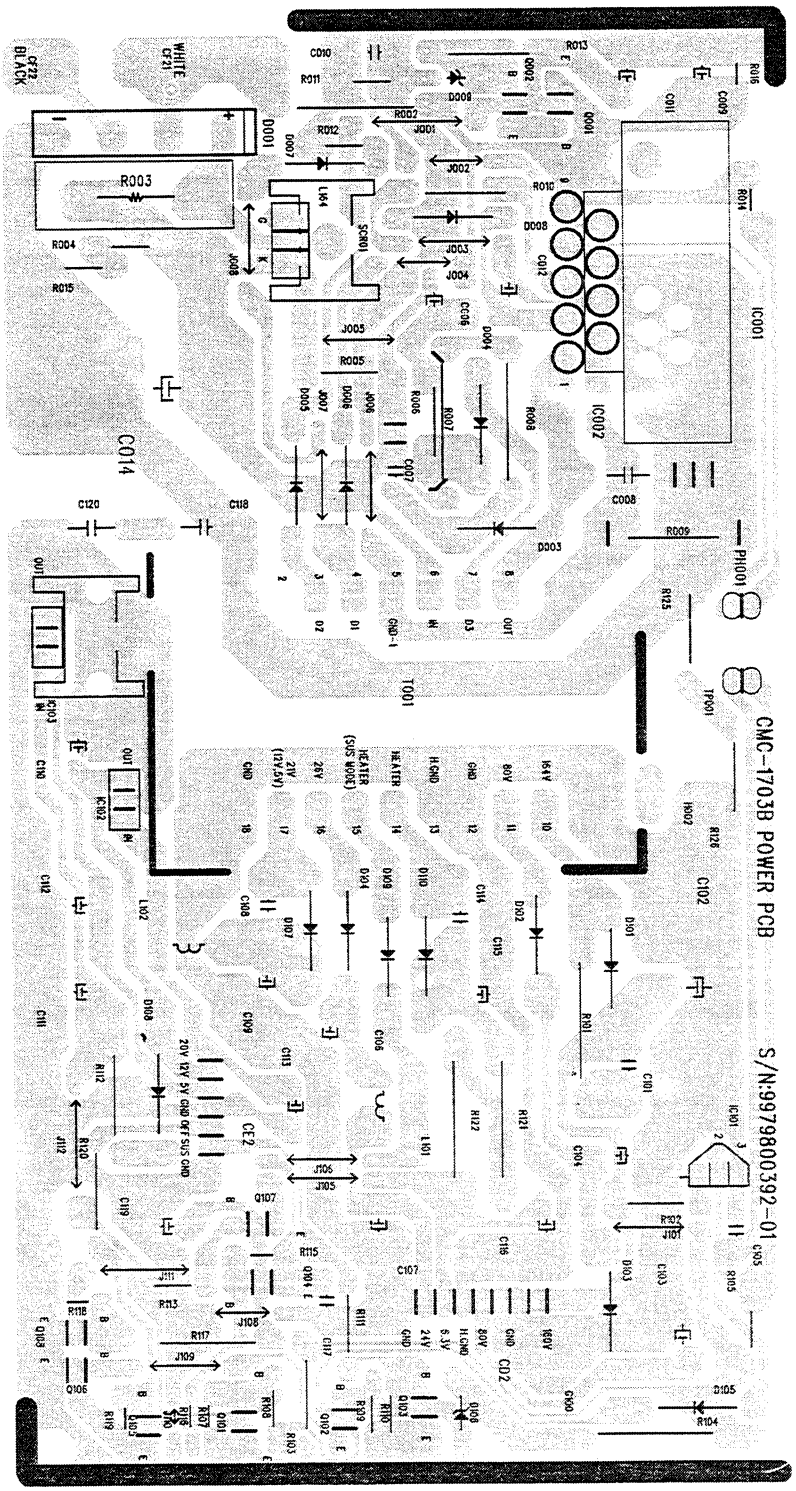
Main PCB Solder Side



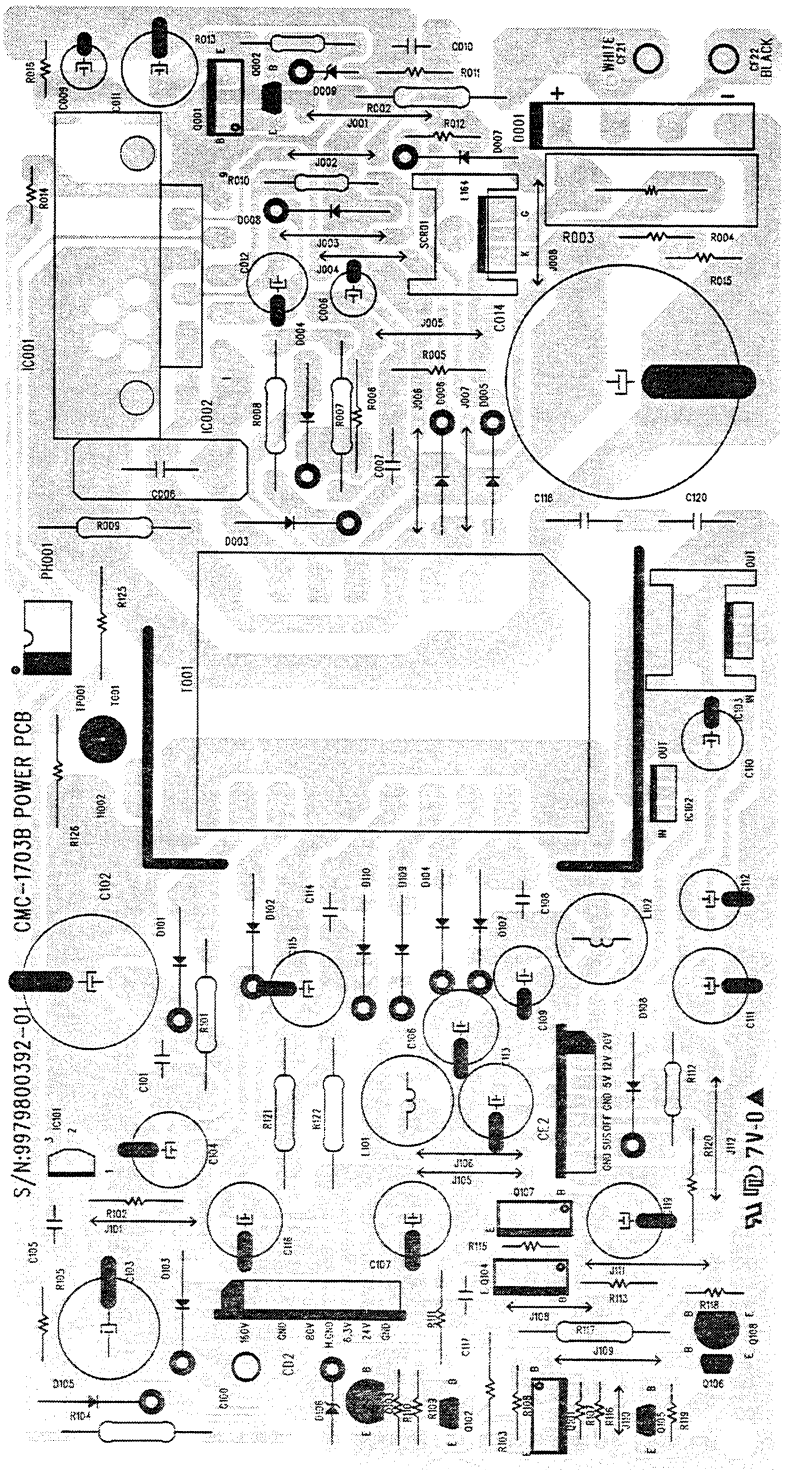
Main PCB Component Side



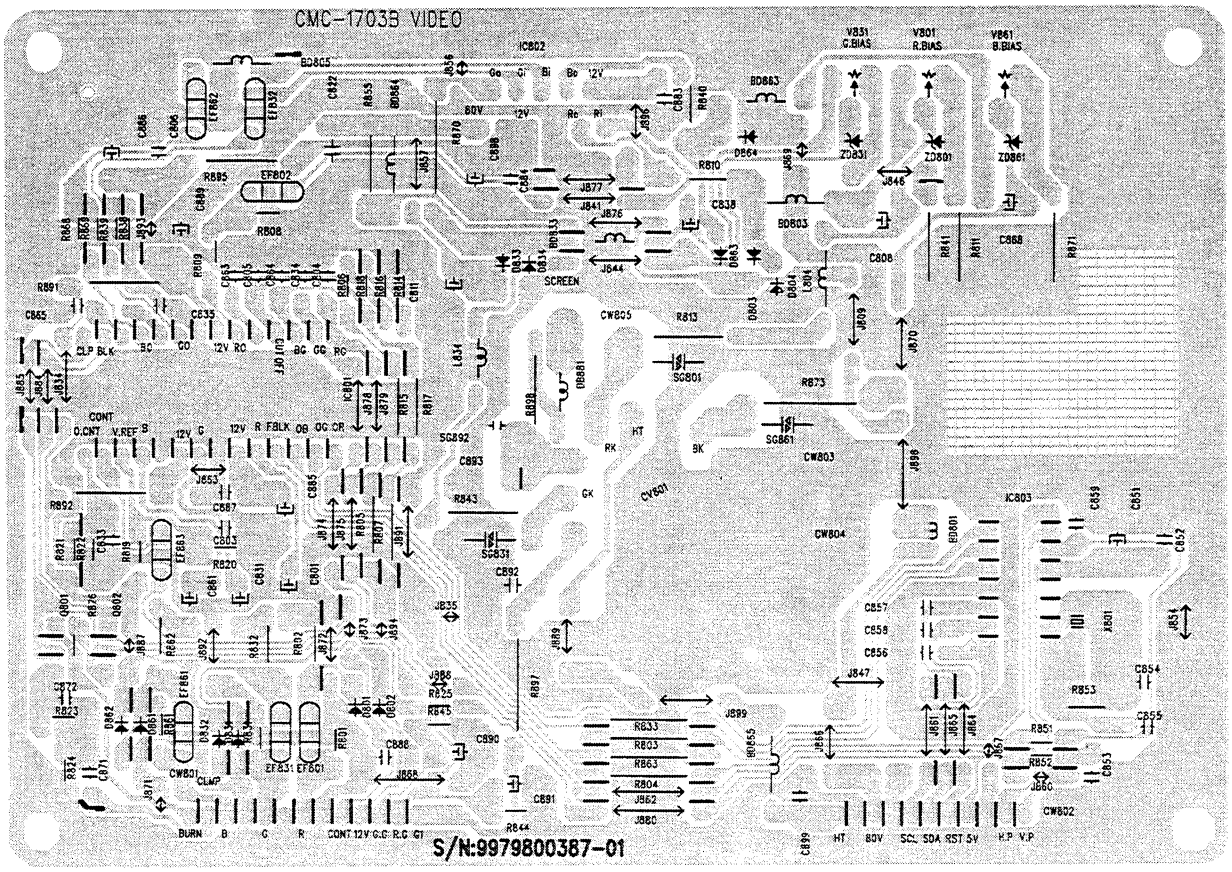
Power PCB Solder Side



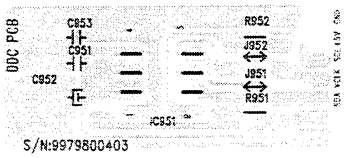
Power PCB Component Side



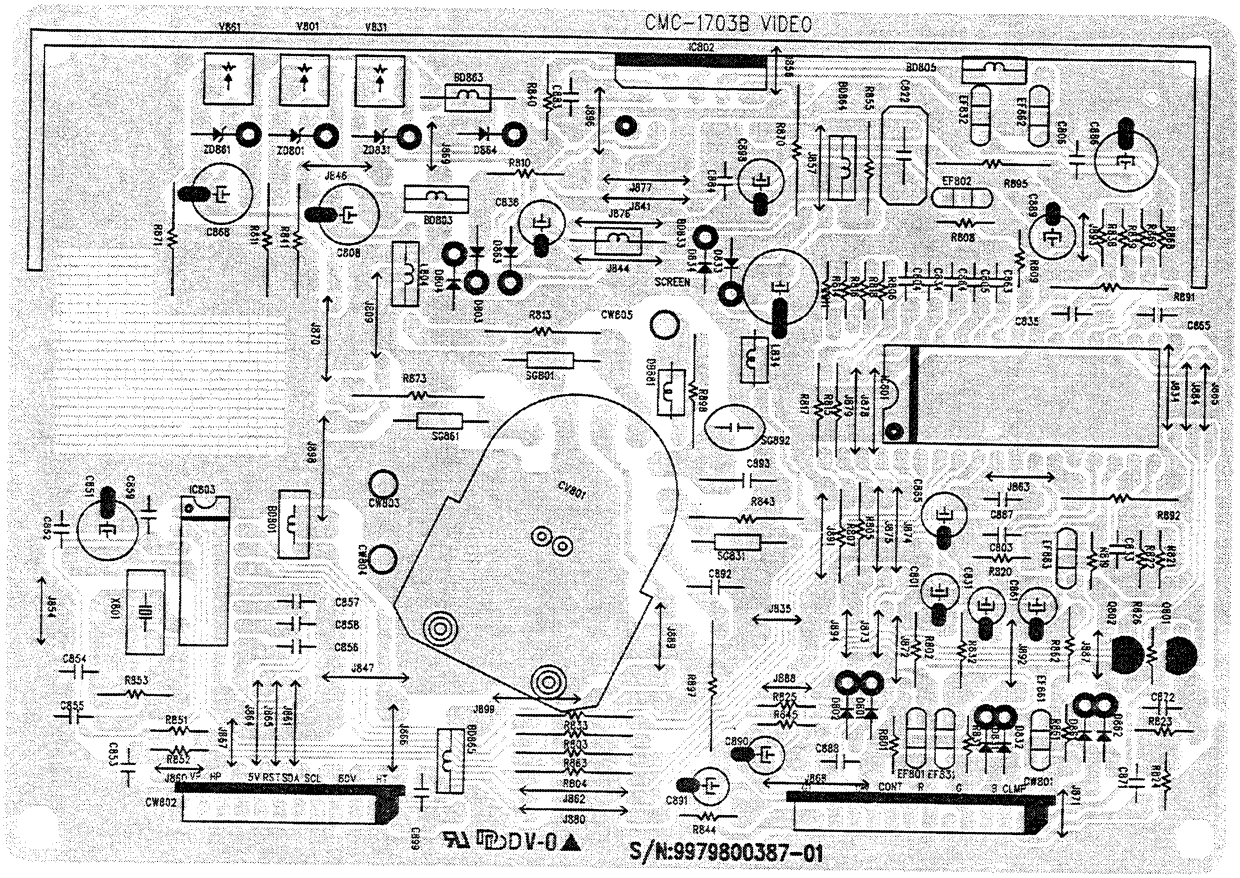
Video PCB Solder Side



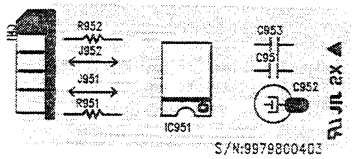
DDC PCB Solder Side



Video PCB Component Side

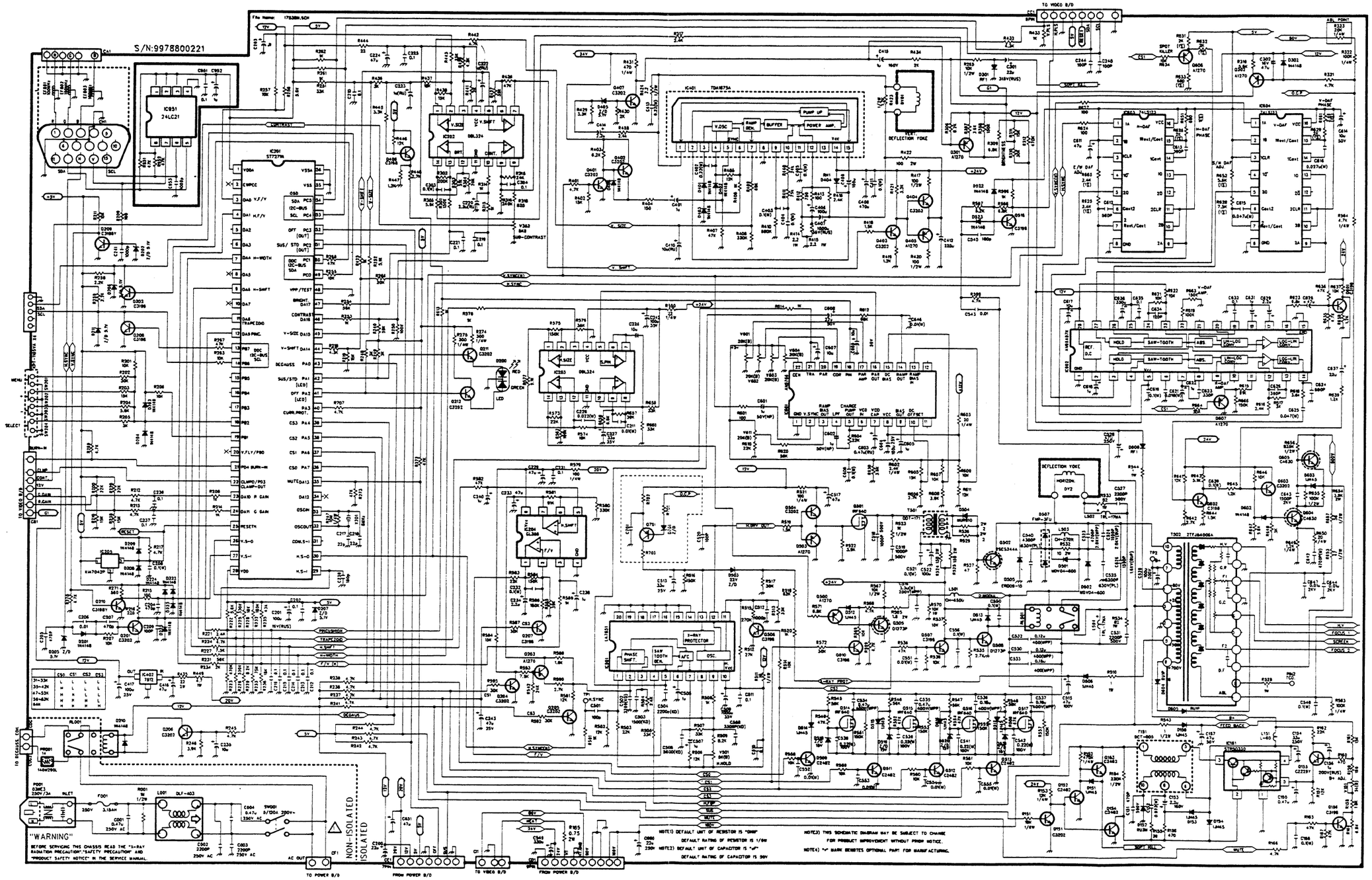


DDC PCB Component Side



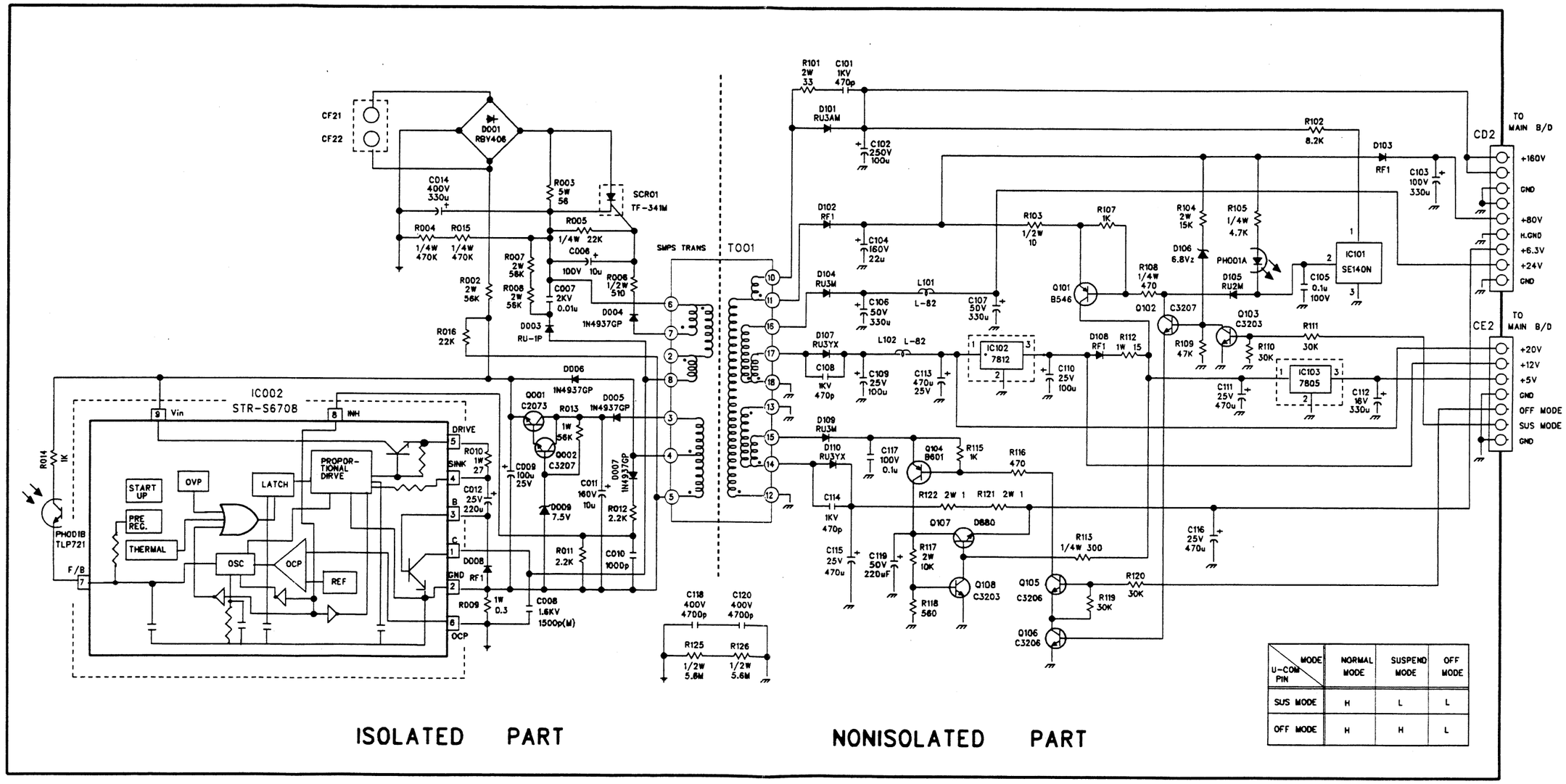
SCHEMATIC DIAGRAM

Main PCB Schematic Diagram


S/N:9978800221
"WARNING"
NON-ISOLATED
ISOLATED
TO POWER B/D
FROM POWER B/D
TO VIDEO B/D
FROM POWER B/D
TO VIDEO B/D
TO DEGAUSS COIL
DEFLECTION YOKE
NOTE(1) DEFAULT UNIT OF RESISTOR IS "OHM"
DEFAULT RATING OF RESISTOR IS 1/8W
NOTE(2) DEFAULT UNIT OF CAPACITOR IS "uF"
DEFAULT RATING OF CAPACITOR IS 50V
NOTE(3) THIS SCHEMATIC DIAGRAM MAY BE SUBJECT TO CHANGE FOR PRODUCT IMPROVEMENT WITHOUT PRIOR NOTICE.
NOTE(4) "+" MARK DENOTES OPTIONAL PART FOR MANUFACTURING.

SCHEMATIC DIAGRAM

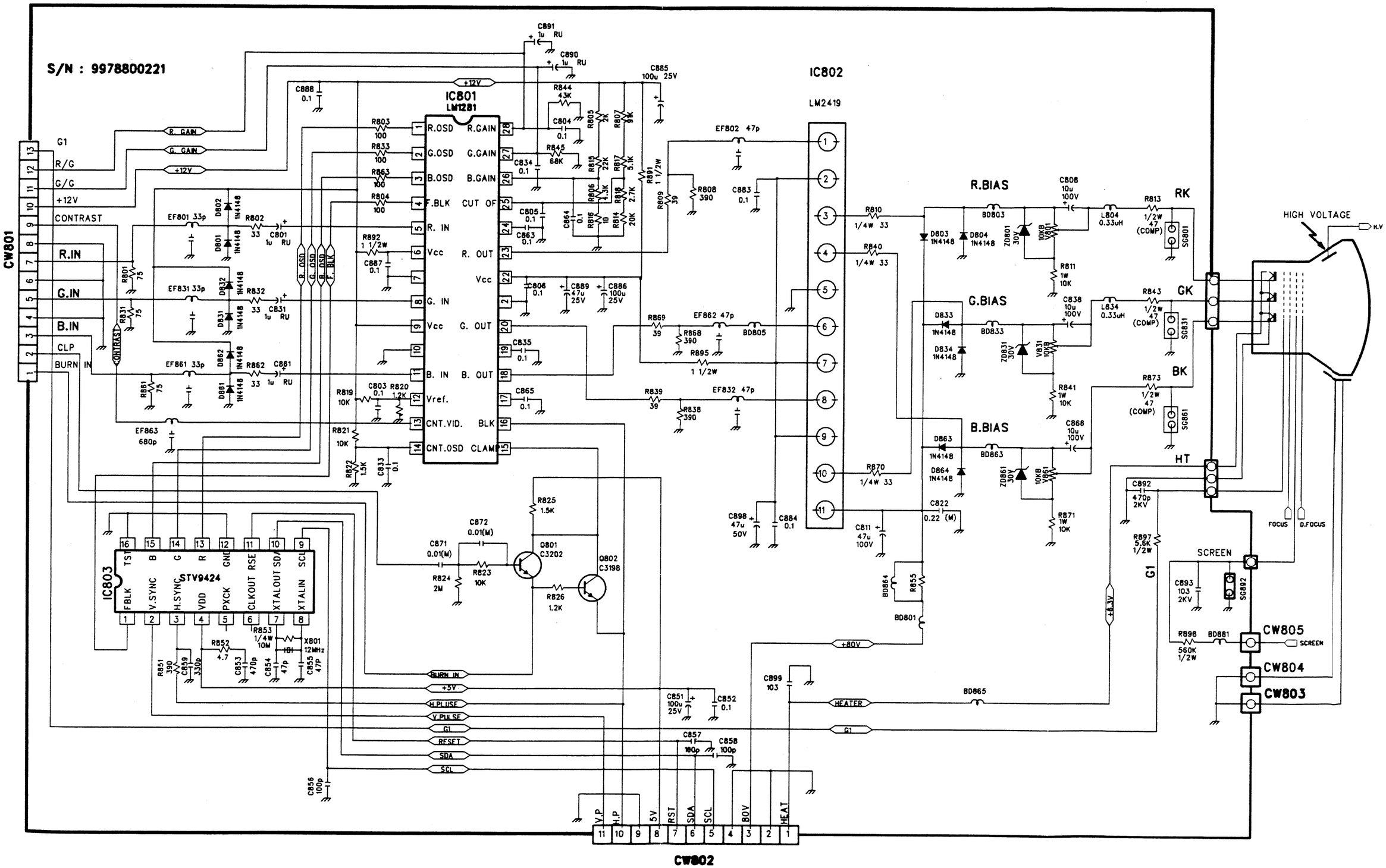
Power PCB Schematic Diagram



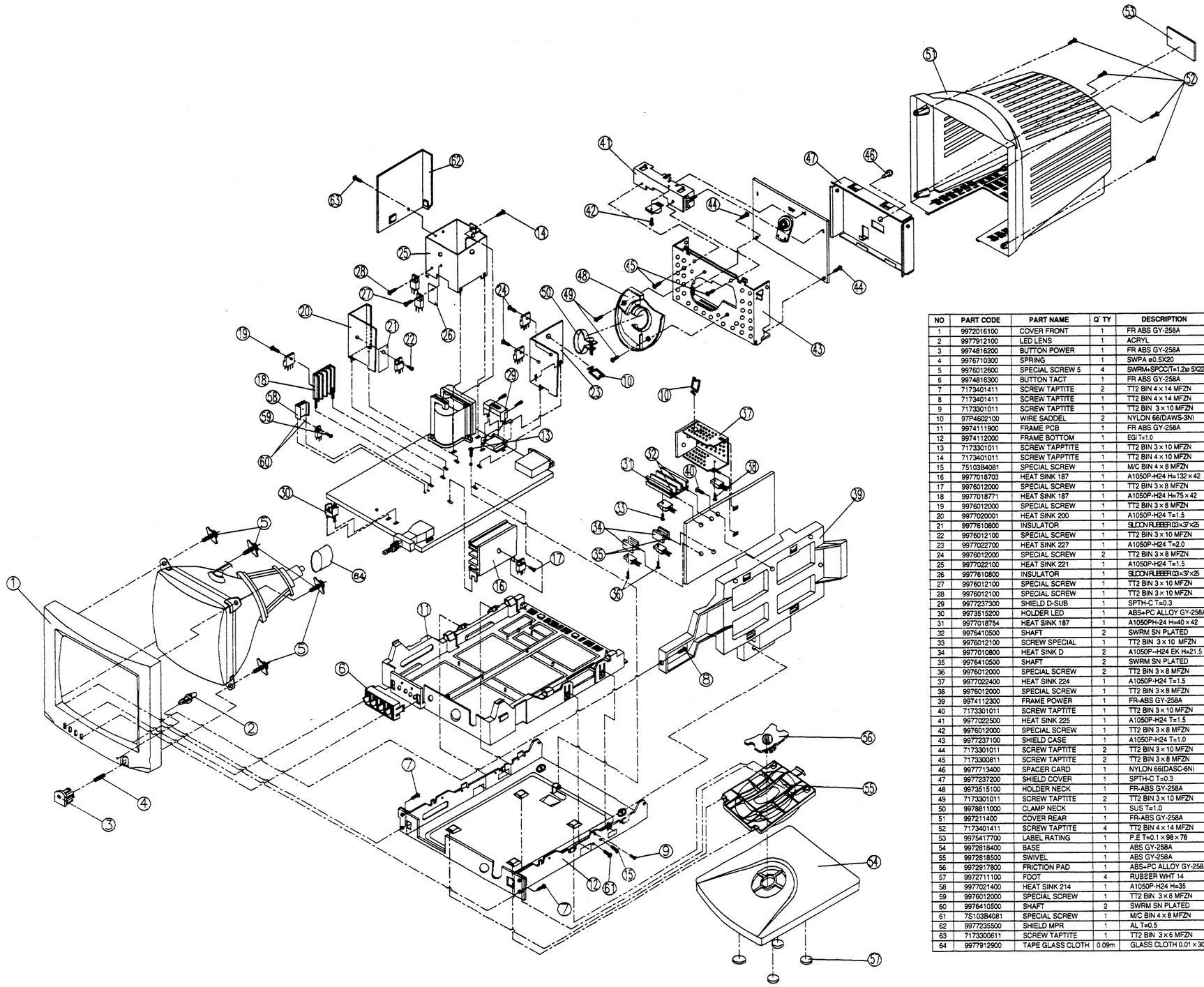
MODE / U-COM PIN	NORMAL MODE	SUSPEND MODE	OFF MODE
SUS MODE	H	L	L
OFF MODE	H	H	L

SCHEMATIC DIAGRAM

Video PCB Schematic Diagram



EXPLODED VIEW DIAGRAM



NO	PART CODE	PART NAME	Q'TY	DESCRIPTION	REMARK
1	9972016100	COVER FRONT	1	FR ABS GY-258A	
2	9977912100	LED LENS	1	ACRYL	
3	9974816200	BUTTON POWER	1	FR ABS GY-258A	
4	9976710300	SPRING	1	SWPA ø0.5X20	
5	9976012600	SPECIAL SCREW 5	4	SWRM+SPCC/T=1.2ø 5X22	
6	9974816300	BUTTON TACT	1	FR ABS GY-258A	
7	7173401411	SCREW TAPTITE	2	TT2 BIN 4 x 14 MFZN	FRONT+FRM BTM
8	7173401411	SCREW TAPTITE	1	TT2 BIN 4 x 14 MFZN	FRONT+FRM POW
9	7173301011	SCREW TAPTITE	1	TT2 BIN 3 x 10 MFZN	FRM POW+FRM BTM
10	97P4602100	WIRE SADDEL	2	NYLON 66(DAWS-3N)	H/S 227, H/S224
11	9974111900	FRAME PCB	1	FR ABS GY-258A	
12	9974112000	FRAME BOTTOM	1	EGI T=1.0	
13	7173301011	SCREW TAPPTITE	1	TT2 BIN 3 x 10 MFZN	FRM BTM+MAIN PCB
14	7173401011	SCREW TAPPTITE	1	TT2 BIN 4 x 10 MFZN	H/S 221+FBT
15	75103B4081	SPECIAL SCREW	1	M/C BIN 4 x 8 MFZN	FR BTM GROUND
16	9977018703	HEAT SINK 187	1	A1050P-H24 H=132 x 42	
17	9976012000	SPECIAL SCREW	1	TT2 BIN 3 x 8 MFZN	H/S 187+IC401
18	9977018771	HEAT SINK 187	1	A1050P-H24 H=75 x 42	
19	9976012000	SPECIAL SCREW	1	TT2 BIN 3 x 8 MFZN	H/S 187+Q505
20	9977020001	HEAT SINK 200	1	A1050P-H24 T=1.5	
21	9977610800	INSULATOR	1	SLICON RUBBER 03x37x25	
22	9976012100	SPECIAL SCREW	1	TT2 BIN 3 x 10 MFZN	H/S 200+IC151
23	9977022700	HEAT SINK 227	1	A1050P-H24 T=2.0	
24	9976012000	SPECIAL SCREW	2	TT2 BIN 3 x 8 MFZN	H/S 227+Q604,Q605
25	9977022100	HEAT SINK 221	1	A1050P-H24 T=1.5	
26	9977610800	INSULATOR	1	SLICON RUBBER 03x37x25	
27	9976012100	SPECIAL SCREW	1	TT2 BIN 3 x 10 MFZN	H/S 221+Q502
28	9976012100	SPECIAL SCREW	1	TT2 BIN 3 x 10 MFZN	H/S 221+D507
29	9977237300	SHIELD D-SUB	1	SPTH-C T=0.3	
30	9973515200	HOLDER LED	1	ABS+PC ALLOY GY-258A	
31	9977018754	HEAT SINK 187	1	A1050PH-24 H=40 x 42	
32	9976410500	SHAFT	2	SWRM SN PLATED	
33	9976012100	SCREW SPECIAL	1	TT2 BIN 3 x 10 MFZN	H/S 187+IC002
34	9977010800	HEAT SINK D	2	A1050P-H24 EK H=21.5	
35	9976410500	SHAFT	2	SWRM SN PLATED	
36	9976012000	SPECIAL SCREW	2	TT2 BIN 3 x 8 MFZN	H/S D+SCR01,IC103
37	9977022400	HEAT SINK 224	1	A1050P-H24 T=1.5	
38	9976012000	SPECIAL SCREW	1	TT2 BIN 3 x 8 MFZN	H/S 224+IC002
39	9974112300	FRAME POWER	1	FR-ABS GY-258A	
40	7173301011	SCREW TAPTITE	1	TT2 BIN 3 x 10 MFZN	FRM POW+POW PCB
41	9977022500	HEAT SINK 225	1	A1050P-H24 T=1.5	
42	9976012000	SPECIAL SCREW	1	TT2 BIN 3 x 8 MFZN	H/S 225+IC802
43	9977237100	SHIELD CASE	1	A1050P-H24 T=1.0	
44	7173301011	SCREW TAPTITE	2	TT2 BIN 3 x 10 MFZN	SH CASE+CRT PCB
45	7173300811	SCREW TAPTITE	2	TT2 BIN 3 x 8 MFZN	H/S 225+SH CASE
46	9977713400	SPACER CARD	1	NYLON 66(DASC-6N)	
47	9977237200	SHIELD COVER	1	SPTH-C T=0.3	
48	9973515100	HOLDER NECK	1	FR-ABS GY-258A	
49	7173301011	SCREW TAPTITE	2	TT2 BIN 3 x 10 MFZN	SH CASE+HOL NECK
50	9978811000	CLAMP NECK	1	SUS T=1.0	
51	997211400	COVER REAR	1	FR-ABS GY-258A	
52	7173401411	SCREW TAPTITE	4	TT2 BIN 4 x 14 MFZN	FRONT+BACK
53	9975417700	LABEL RATING	1	P.E T=0.1 x 98 x 76	
54	9972818400	BASE	1	ABS GY-258A	
55	9972818500	SWIVEL	1	ABS GY-258A	
56	9972917800	FRICTION PAD	1	ABS+PC ALLOY GY-258A	
57	9972711100	FOOT	4	RUBBER WHT 14	
58	9977021400	HEAT SINK 214	1	A1050P-H24 H=35	
59	9976012000	SPECIAL SCREW	1	TT2 BIN 3 x 8 MFZN	H/S 214+IC402
60	9976410500	SHAFT	2	SWRM SN PLATED	
61	7S10384081	SPECIAL SCREW	1	M/C BIN 4 x 8 MFZN	FR BTM GROUND
62	9977235500	SHIELD MPR	1	AL T=0.5	
63	7173300611	SCREW TAPTITE	1	TT2 BIN 3 x 6 MFZN	H/S 221+SH MPR
64	9977912900	TAPE GLASS CLOTH	0.09m	GLASS CLOTH 0.01 x 30m	CRT NECK

REPLACEMENT PARTS LIST

Important Safety Notice

Components identified with the International Symbol have special characteristics important for safety.
When replacing any components, use only manufacturer's specified parts.

Abbreviation of Description

RESISTOR Description

Allowance	
F	± 1%
J	± 5%
K	± 10%
M	± 20%
G	± 2%

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RE-4Z820J	Cabron : 82J

CAPACITOR Description

Allowance	
C	± 0.25pF
D	± 0.5%
F	± 1pF
J	± 5%
K	±10%
P	±100% ~ 0%
Z	± 80% ~ -

Example:

Fig & Index	Part No	Description
	Capacitors	
C102	CCXF1H104Z	Ceramic 50V Z
C105	CBSLH200J	Ceramic 50V J
C402	CCXB1H331K	Ceramic 50V K

The components identified by mark ⚠ have special characteristics important for safety and x-ray radiation.
These should be replaced only with the types specified in the parts list.

	LOC	PART-CODE	PART-NAME	PART-DESC
	CT001	9979600292	CDT	M41KVZ 680*71(Q)
	CT002	9970710090	CRT GROUND AS	6/0.12-16T+BL102-02P+660
	CT003	5MG0000041	COIL DEGAUSSING	DG-17B
	20010	PCMPM1J022	PCB MAIN MANUAL AS	CMC-1703B
	CB1	99707D0002	CONN AS	5264-13+51088-8/7=350
	CC1	99707B0002	CONN AS	5264-11+51088-9/4=350
	CD1	9970791001	CONN AS	5264-9+51088+2464=300
	CE1	9970791001	CONN AS	5264-9+51088+UL2464=300
	CF1	9970720053	CONN AS	YFH800-2+35740-1410=250
	CG1	9970720052	CONN AS	35740-1410+1015#22=300
	CH1	9979200207	D-SUB 15P ANGLE	15P DDC BLUE W-OUT SCRE
	C001	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/0
	C002	CH1FDF222M	C CERA AC	DE7100 222M VA1-KC
	C003	CH1FDF222M	C CERA AC	DE7100 222M VA1-KC
	C004	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)=Q/0
⚠	C516	CMYF2D335J	C MYLAR	MPP 200V 3.3MFJ
⚠	C523	CMXH3D332J	C MYLAR	2KV BUP 3300PF J
⚠	C524	CMXH3D335J	C MYLAR	2KV BUP 3000PF J
⚠	C526	CMXH3C152J	C MYLAR	BUP 1.6KV 1500PF J
	C529	CEYF2D101C	C ELECTRO	200V RUS 100MF (16X31.5)
⚠	C530	CMXF2G124J	C MYLAR	MPP 400V 0.12MF J
	C532	CMXF2G124J	C MYLAR	MPP 400V 0.12MF J
	C533	CMXF2G154J	C MYLAR	MPP 400V 0.15MF J
	C534	CMXF2G474J	C MYLAR	MPP 400V 0.47MF J
	C535	CMXF2G474J	C MYLAR	MPP 400V 0.47MF J
	C536	CMXF2G184J	C MYLAR	MPP 400V 0.18MF J
	C537	CMXF2G184J	C MYLAR	MPP 400V 0.18MF J
	C552	CMXF2A184J	C MYLAR	100V 0.01MF J TP
	C643	CCXF3D152K	C CERA	HIKB 2KV 1500PF K
	C644	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
	C644	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
	DDC	PCDPSWJ002	PCB DDC AS	CMC-1703B
	CN1	4859241620	CONN WAFER	YFAW025-05
	IC951	124LC21---	IC	24LC21
	40010	PCDPJRJ022	PCB DDC RAD. AS	CMC-1703B
	C951	CCXF1H104Z	C CERA	50V F 0.1MF Z

	LOC	PART-CODE	PART-NAME	PART-DESC
	C952	CEXE1H109C	C ELECTRO	50V RU 1MF(5X11) TP
	C953	CCXB11H02K	C CERA	50V B 100PF K (TAPPING)
	53000	PCBNA3022**	PCB DDC AXIAS	CMC-1703B
	J951	85801052GY	WIRE COPPER	1/0.52 TIN COATING
	J952	85801052GY	WIRE COPPER	1/0.52 TIN COATING
	R951	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
	R952	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
	00001	9979800403	PCB DDC	CMC-1704C
	D200	DAL151RGW-	LED	AL-151RGW
	D501	DMDV04600-	DIODE	MDV04-600
	D502	DMDV04600-	DIODE	MDV04-600
	D504	DMUR810---	DIODE	MUR810
⚠	D505	DERD0915--	DIODE	ERD09-15
	EF801	5PNFV510--	FILTER EMI	NFV510
	EF802	5PNFV510--	FILTER EMI	NFV510
	EF803	5PNFV510--	FILTER EMI	NFV510
⚠	F001	5F3CDB3122L	FUSE CERA	SEMKO TL 3.15A 250A MF51
	GND1	997010088	CONN AS	35740-1410+UL1015#18=100
	GND2	9970710089	CONN AS	35740-1410+4.3CORE=100
⚠	IC201	1ST7271N3-	IC	ST7271N3**
⚠	IC202	1DBL324---	IC	DBL324
⚠	IC203	1DBL324---	IC	DBL324
⚠	IC204	1GL358----	IC	GL358
⚠	IC601	1AN5766K--	IC	AN5766K
⚠	IC602	1AN96A07K-	IC DYNAMIC FOCUS	AN96A07K
⚠	L001	5PDLF403--	FILTER LINE	DLF-403
	L151	5MC0000027	COIL CHOKE	L-60(60 UH)
	L501	5MC0000054	COIL CHOKE	CH-650U
	L502	5MH0000052	COIL H-LINEARITY	TRL-17MA
	L503	5MC0000053	COIL CHOKE	CH-070N
	L504	5MH0000052	COIL H-LINEARITY	TRL-17MA
⚠	PR001	DPJ502140M	POSISTOR	J502P53D140M290
⚠	P001	9979500010	RECEPTACLE	03ME2D/FILTER EMI
⚠	Q501	T1RF640---	FET	IRF640
	Q508	T2SD1273AP	TR	2SD1273A-P
⚠	Q514	T1RF640---	FET	IRF640
⚠	Q515	T1RF640---	FET	IRF640

	LOC	PART-CODE	PART-NAME	PART-DESC
⚠	Q516	T1RF640---	FET	IRF640
⚠	Q517	T1RF640---	FET	IRF640
⚠	RL001	5SC0201103	SW RELAY	HR-CR323 2C-1P DC12V
⚠	RL501	5SC0202112	SW RELAY	HR-CR321 DC24V
⚠	SW001	5S40202573	SW POWER	ME-7 (PREH)
	SW201	5S50101008	SW TACT	KPT-1105V 1C-1P
	SW202	5S50101008	SW TACT	KPT-1105V 1C-1P
	SW203	5S50101008	SW TACT	KPT-1105V 1C-1P
	SW204	5S50101008	SW TACT	KPT-1105V 1C-1P
	T151	5RP0000033	TRANS CHOPPER	DCT-005
⚠	T501	5RD0000022	TRANS DRIVE	THD-171
⚠	T502	5RH0000074	FBT	ZTFJ54006A
	00010	9974111900	FRAME PCB	FR ABS GY-258A (94V-0)
	00020	9974112000	FRAME BOTTOM	EGI T=1.0 (CMC-1703B)
	00030	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
	00050	7S103B4081	SCREW SPECIAL	M/C NIN 4X8 MFZN
	00060	97P4602100	WIRE SADDLE	NYLON66 , DASW-3N
	00070	4856812001	TIE CABLE	NYLON66 DA100
	00080	9977237300	SHIELD D-SUB	SPTH-C T=0.3
	00100	9975000100	CORE FERRITE	6.8X13.5X27
	30010	PCHASWJ022	HEAT SINK A AS	CMC-1703B
⚠	IC401	1TDA1675A-	IC	TDA1675A
	00100	9977018703	HEAT SINK 187	A1050P-H24 H=132
	00200	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	30020	PCHBSWJ022	HEAT SINK 187	A1050P-H24 H=132
⚠	IC402	1K1A7812P1	IC REGULATOR	KIA7812PI
	00100	9977021400	HEAT SINK 214	A1050P-H24 H=35
	00200	997612000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	0030	9976410500	SHAFT	SWRM SN PLATE
	30030	PCHCSWJ022	HEAT SINK C AS	CMC-1703B
⚠	Q505	T2SD1273AP	TR	2SD1273A-P
	00100	9977018771	HEAT SINK 187	A1050P-H24 H=75
	00200	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	30040	PCHDSWJ022	HEAT SINK D AS	CMC-1703B
⚠	D507	DFMP3FU---	DIODE	FMP-3FU
⚠	Q502	T2SC5244A-	TR	2SC5244A
	00100	9977022100	HEAT SINK 221	A1050P-H24 T=1.5

	LOC	PART-CODE	PART-NAME	PART-DESC
	00200	9977610805	INSULATOR	SILICON RUBBER T=0.3
	00300	997612000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	00400	9976712200	SPRING TR	SUS T=0.5
	30050	PCHESWJ022	HEAT SINK E AS	CMC-1703B
⚠	Q604	T2SC4630--	TR	2SC4630
⚠	Q605	T2SC4630--	TR	2SC4630
	00100	9977022700	HEAT SINK 227	A1050P-H24 T=2.0
	00200	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	30060	PCHGSWJ022	HEAT SINK G AS	CMC-1703B
	IC151	1STR50330-	IC	STR50330
	00010	9977020001	HEAT SINK 200	AL T1.5
	00020	9976012100	SCREW SPECIAL	TT2 BIN 3*10 MFZN PW
	00030	9977610800	INSULATOR	SILICON RUBBER T0.3
	30070	PCMPJ0J022	PCB MAIN ODD SHAPE A	CMC-1703B
	CDG1	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	CDG2	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
	CW1	485923262S	CONN WAFER	5267-05A STICK TYPE
	C154	CEXF2E330C	C ELECTRO	RUS 250V 33MF 13*25
	C301	CEXF2F220C	C ELECTRO	RUS 315V 22MF 13*20
	C402	CMXB2A224J	C MYLAR	100V EU 0.22MF J
	C407	CEXF1V102C	C ELECTRO	35V RUS 1000MF (13X25) TP
	C409	CEXF1H471C	C ELECTRO	RUS 50V 1000MF (13X25) TP
	C412	CEXF1H221C	C ELECTRO	RUS 50V 220MF 10*16
	C413	CMXB2A224J	C MYLAR	100V EU 0.22MF J
	C502	CMXD2A222J	C MYLAR	KD 100V 2200PF J
	C503	CMXD2A222J	C MYLAR	KD 100V 1500PF J
	C504	CMXD2A222J	C MYLAR	KD 100V 2200PF J
	C506	CMXD2A562J	C MYLAR	KD 100V 5600PF J
	C508	CMXF1V102C	C ELECTRO	KD 100V 3300PF J
	C509	CEXF1V102C	C ELECTRO	35V RUS 1000MF (13X25) TP
⚠	C515	CEXF2A470C	C ELECTRO	100V RUS 47MF (10X16) TP
⚠	C525	CMXF2J822J	C MYLAR	PL 630 8200PF J
	C528	CEXF2E470C	C ELETRO	250V RUS 47MF (16X25) TP
	C538	CMXB2A224J	C MYLAR	100V EU 0.22MF J
	C539	CMXBSA224J	C MYLAR	100V EU 0.22MF J
⚠	C540	CMXE2J432J	C MYLAR	PL 630V 4300PF J
	C541	CMXB2A224J	C MYLAR	100V EU 0.22MF J

	LOC	PART-CODE	PART-NAME	PART-DESC
	C542	CMXB2A224J	C MYLAR	100V EU 0.22MF J
	C549	CEXF1H331C	C ELECTRO	RUS 50V 330MF 10*20
	C660	CEXF2E220C	C ELECTRO	250V RUS 22MF (13X20) TP
	DY1	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	DY2	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	DY3	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
	DY4	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	D152	DRU3M-----	DIODE	RU 3M (TAPPING)
	D301	DRF1------	DIODE	RF-1
	D404	DRH1------	DIODE	RH-1
	D509	DRF1------	DIODE	RF-1
	D604	DRU1P-----	DIODE	RU 1P (TAPPING)
	D605	DRU1P-----	DIODE	RU 1P (TAPPING)
	GND3	4857417500	TERM PIN	DA-IB0214(D2..3/DY PIN)
	GND4	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	GND5	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	GND6	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
⚠	IC501	1LA7851---	IC	LA7851
⚠	IC603	1GD74LS123	IC	GD74LS123
⚠	IC604	1GD74LS123	IC	GD74LS123
	PIN2	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	R165	RW02X758JN	R WIRE WOUND	2W 0.75 OHM J NON-INDUCT
	R414	RS01Z229J-	R M-OXIDE FILM	1W 2.2 OHM J (TAPPING)
	R415	RS01Z229J-	R M-OXIDE FILM	1W 2.2 OHM J (TAPPING)
	R422	RS02Z101J-	R M-OXIDE FILM	2W 100 OHM J (TAPPING)
	R435	RS02Z220J-	R M-OXIDE FILM	2W 22 OHM J (TAPPING)
	R449	RS01Z479J-	R M-OXIDE FILM	1W 4.7 OHM J (TAPPING)
⚠	R510	RS01Z109J-	R M-OXIDE FILM	1W 1 OHM J (TAPPING)
	R524	RS02Z151J-	R M-OXIDE FILM	2W 150 OHM J (TAPPING)
	R525	RS02Z151J-	R M-OXIDE FILM	2W 150 OHM J (TAPPINGR526
	R526	RS02Z209J-	R M-OXIDE FILM	2W 2.0 OHM J
	R528	RS01Z109J-	R M-OXIDE FILM	1W 1 OHM J (TAPPING)
	R529	RS02Z209J-	R M-OXIDE FILM	2W 2.0 OHM J
	R532	RS02Z100J-	R M-OXIDE FILM	2W 10 OHM J (TAPPING)
	R533	RS01Z820J-	R M-OXIDE FILM	1W 82 OHM J (TAPPING)
	R534	RS01Z820J-	R M-OXIDE FILM	1W 82 OHM J (TAPPING)
	R544	RS01Z109J-	R M-OXIDE FILM	1W 1 OHM J (TAPPING)

LOC	PART-CODE	PART-NAME	PART-DESC
R565	RS02Z189J-	R M-OXIDE FILM	2W 1.8 OHM J (TAPPING)
R570	RS01Z103J-	R M-OXIDE FILM	1W 10K OHM J (TAPPING)
R654	RS02Z392J-	R M-OXIDE FILM	2W 3.9K OHM J (TAPPING)
TP1	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
TP2	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
X201	5XE8R0000E	CRYSTAL QUARTZ	HC-49/U 8.000000MHZ 30PPM
40010	PCMPJRJ022	PCB MAIN RADIAL AS	CMC-1703B
C151	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)
C152	CMX2A223J	C MYLAR	100V 0.022MF J TP
C153	CEXF2C229C	C ELECTRO	RUS 160V 2.2MF 8*11.5
C155	CEXE1H478C	C ELECTRO	50V RU 0.47MF (5X11) TP
C156	CEXF2D109C	C ELECTRO	RUS 200V 1MF 6.3*11
C157	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C158	CMX2A104J	C MYLAR	100V 0.1MF J TP
C200	CEXF1H220C	C ELECTRO	50V RUS 22MF (5X11) TP
C201	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C202	CCXF1H104Z	C CERA	50V F 0.1MF Z
C203	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C204	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
C205	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
C206	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C207	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
C208	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C209	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
C210	CCXF1H104Z	C CERA	50V F 0.1MF Z
C211	CMXM2A103J	C MYLAR	100V 0.01MF J TP
C212	CCXF1H104Z	C CERA	50V F 0.1MF Z
C213	CCXF1H104Z	C CERA	50V F 0.1MF Z
C214	CCXF1H104Z	C CERA	50V F 0.1MF Z
C215	CCXF1H104Z	C CERA	50V F 0.1MF Z
C216	CCXF1H104Z	C CERA	50V F 0.1MF Z
C217	CCXF1H220J	C CERA	50V CH 22PF J (TAPPING)
C218	CXCH1H220J	C CERA	50V CH 22PF J (TAPPING)
C219	CCXF1H104Z	C CERA	50V F 0.1MF Z
C220	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C221	CCXF1H104Z	C CERA	50V F 0.1MF Z
C222	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP

LOC	PART-CODE	PART-NAME	PART-DESC
C223	CEXE1H109C	C ELETRO	50V RU 1MF (5X11) TP
C224	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C225	CCXF1H104Z	C CERA	50V F 0.1MF Z
C226	CEXD1H100F	C ELECTRO	50V RND 10MF (8X11.5) TP
C227	CEXF1H330C	C ELECTRO	50V RUS 33MF (6.3X11) TP
C228	CMXM2A223J	C MYLAR	100V 0.022MF J TP
C229	CEXF1H470C	C ELECTRO	50V RIS 47MF (6.3X11) TP
C230	CCXF1H104Z	C CERA	50V B 180PF K (TAPPING)
C231	CCXF1H104Z	C CERA	50V F 0.1MF Z
C232	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C233	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C234	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C235	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C236	CCXF1H104Z	C CERA	50V F 0.1MF Z
C237	CCXF1H104Z	C CERA	50V F 0.1MF Z
C238	CEXF1H109C	C ELECTRO	50V RUS 1MF (5X11) TP
C240	CEXF1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C241	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)
C242	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP
C243	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C244	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
C245	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
C302	CEXD1C470F	C ELECTRO	16V RND 47MF (8X11.5)
C303	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C304	CCXF1H104Z	C CERA	50V F 0.1MF Z
C401	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C403	CMXM2A104J	C MYLAR	100V 0.1MF TP
C404	CMXM2A104J	C MYLAR	100V 0.1MF TP
C405	CMXM2A104J	C MYLAR	100V 0.1MF TP
C406	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C408	CEXF1E101C	C ELECTRO	50V RUS 100MF (8X11.5) TP
C410	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C411	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C414	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C415	CEXF2C109C	C ELECTRO	160V RUS 1MF (6.3X11) TP
C416	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C417	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP

	LOC	PART-CODE	PART-NAME	PART-DESC
	C501	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
	C505	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
	C507	CEXF1H109C	C ELECTRO	50V RU 1MF (5X11) TP
	C510	CCXF1H104Z	C CERA	50V F 0.1MF Z
	C511	CCXF1H104Z	C CERA	50V F 0.1MF Z
	C512	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)
⚠	C513	CEXF1H330C	C ELECTRO	50V RUS 33MF (6.3X11) TP
	C517	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
	C518	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
	C519	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
	C520	CCXB1H101K	C CERA	50V B 100PF K (TAPPING)
	C521	CMXM2A104J	C MYLAR	100V 0.1MF J TP
	C522	CEXF1H101C	C ELECTRO	50V RUS 100MF (8X11.5) TP
	C527	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)
	C531	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)
	C543	CCXB1H103K	C CERA	50V B 0.01MF K
	C545	CXCH1H181J	C CERA	50V 0.1MF J TP
	C548	CMXM2A104J	C MYLAR	100V 0.1MF J (TAPPING)
	C551	CMXM2A103J	C MYLAR	100V 0.1MF J TP
	C553	CMXM2A103J	C MYLAR	100V 0.1MF J TP
	C554	CMXM2A103J	C MYLAR	100V 0.1MF J TP
	C555	CMXM2A103J	C MYLAR	100V 0.1MF J TP
	C601	CEXD1H109F	C ELECTRO	50V RND 1MF (5X11) TP
	C602	CEXD1H109F	C ELECTRO	50V RND 1MF (5X11) TP
	C603	CEXE1H478C	C ELECTRO	50V RU 0.47MF (5X11) TP
	C604	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
	C605	CEXF1H109C	C ELECTRO	50V RU 1MF (5X11) TP
	C606	CMXM2A104J	C MYLAR	100V 0.1MF J TP
	C607	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
	C608	CEXF1H220C	C ELECTRO	50V RUS 22MF (5X11) TP
	C609	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
	C611	CEXF1H470C	C ELECTRO	25V RUS 47MF (6.3X11) TP
	C612	CCXB1H561K	C CERA	50V B 560PF K (TAPPING)
	C613	CCXB1H391K	C CERA	50V B 390PF K (TAPPING)
	C614	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
	C615	CMXM2A473J	C MYLAR	100V 0.047MF J TP
	C616	CMXM2A273J	C MYLAR	100V 0.027MF J TP

LOC	PART-CODE	PART-NAME	PART-DESC
C617	CEXE1H100C	C ELECTRO	50V RU 10MF (5X11) TP
C618	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C619	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C621	CMXM2A183J	C MYLAR	100V 0.018MF J TP
C622	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C623	CCXB1H331K	C CERA	50V B 330PF K (TAPPING)
C624	CCXB1H681K	C CERA	50V B 680PF K (TAPPING)
C625	CMXM2A473J	C MYLAR	100V 0.047MF J (TAPPING)
C626	CCXB1H391K	C CERA	50V B 390PF K (TAPPING)
C628	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C629	CEXE1H229C	C ELECTRO	50V RU 2.2MF (5X11) TP
C631	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C632	CCXF1H104Z	C CERA	50V F 0.1MF Z
C634	CCXB1H121K	C CERA	50V B 120PF K (TAPPING)
C635	CCXF1H104Z	C CERA	50V F 0.1MF Z
C636	CEXF1C331C	C ELECTRO	RUS 16V 330MF
C637	CEXF1H220C	C ELECTRO	50V RUS 22MF (5X11) TP
C639	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C642	CMXM2A472J	C MYLAR	100V 4700PF J TP
C646	CMXM2A103J	C MYLAR	100V 0.01MF J TP
C651	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
F001A	4857415001	CLIP FUSE	PFC5000-0702
F001B	4857415001	CLIP FUSE	PFC5000-0702
IC205	1K1A7042P-	IC SWITCH	KIA7042P
Q151	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q152	TZTC3207--	TR	KTC3207 (AUTO)
Q153	TZTC3207--	TR	KTC3207 (AUTO)
Q154	TZTC3207--	TR	KTC3207 (AUTO)
Q155	TZTC3206Y-	TR	KTC3206Y (2229Y)
Q156	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q201	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q202	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q203	TZTA1270Y-	TR	KTA1270Y (AUTO) (562Y)
Q204	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q205	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q206	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q207	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)

LOC	PART-CODE	PART-NAME	PART-DESC
Q208	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q209	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q210	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q211	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q212	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q301	TZTA1270Y-	TR	KTA1270Y (AUTO) (562Y)
Q302	TZTA1270Y-	TR	KTA1270Y (AUTO) (562Y)
Q401	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q402	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q403	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q404	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q405	TZTA1270Y-	TR	KTA1270Y (AUTO) (562Y)
Q406	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q407	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q500	TZTA1270Y-	TR	KTA1270Y (AUTC) (562Y)
Q503	TZTA1207Y-	TR	KTC1207Y (AUTO) (562Y)
Q504	TZTC3202Y-	TR	KTC3202Y- (AUTO) (1959Y)
Q506	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q507	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q509	TZTC3207--	TR	KTC3207 (AUTO)
Q510	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q511	TZTC3207--	TR	KTC3207 (AUTO)
Q512	TZTC3207--	TR	KTC3207 (AUTO)
Q513	TZTC3207--	TR	KTC3207 (AUTO)
Q518	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q601	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q602	TZTC3198Y-	TR	KTC3198Y- (1815Y) (AUTO)
Q603	TZTC3202Y-	TR	KTC3202Y- (AUTO) (1959Y)
Q606	TZTA1207Y-	TR	KTC1207Y (AUTO) (562Y)
Q607	TZTA1207Y-	TR	KTC1207Y (AUTO) (562Y)
⚠ V151	RV6121502P	R SEMI FIXED	CCT 063BT 5K OHM B TAP
V302	RV6121502P	R SEMI FIXED	CCT 063BT 5K OHM B TAP
V501	RV6121502P	R SEMI FIXED	CCT 063BT 5K OHM B TAP
V601	RV6121203P	R SEMI FIXED	CCT 063BT 20K OHM B TAP
V602	RV6121203P	R SEMI FIXED	CCT 063BT 20K OHM B TAP
V603	RV6121203P	R SEMI FIXED	CCT 063BT 20K OHM B TAP
V604	RV6121203P	R SEMI FIXED	CCT 063BT 20K OHM B TAP

	LOC	PART-CODE	PART-NAME	PART-DESC
	V611	RV6121203P	R SEMI FIXED	CCT 063BT 20K OHM B TAP
	50010	PCMPJAJ022	PCB MAIN AXIAL AS	CMC-1703B
	AP001	9979800394	PCB MAIN	T1.6*330*246 1703B
	D151	D1JH45----	DIODE	1JH45 TPA1
	D153	D1JH45----	DIODE	1JH45 TPA1
	D154	D1JH45----	DIODE	1JH45 TPA1
	D155	D1JH45----	DIODE	1JH45 TPA1
	D201	DZN4148---	DIODE	1N4148 AUTO 52M
	D202	DDZ5R1B--	DIODE ZENER	DZ5.1BM
	D203	DZN4148---	DIODE	1N4148 AUTO 52M
	D204	DZN4148---	DIODE	1N4148 AUTO 52M
	D205	DDZ5R1B--	DIODE ZENER	DZ5.1B
	D206	DDZ5R1B--	DIODE ZENER	DZ5.1B
	D207	DDZ5R1B--	DIODE ZENER	DZ5.1B
	D208	DZN4148---	DIODE	1N4148 AUTO 52M
	D209	DZN4148---	DIODE	1N4148 AUTO 52M
	D210	DZN4148---	DIODE	1N4148 AUTO 52M
	D211	DDZ5R1B--	DIODE ZENER	DZ5.1B
	D222	DZN4148---	DIODE	1N4148 AUTO 52M
	D223	DZN4148---	DIODE	1N4148 AUTO 52M
	D224	DZN4148---	DIODE	1N4148 AUTO 52M
	D225	DZN4148---	DIODE	1N4148 AUTO 52M
	D302	DZN4148---	DIODE	1N4148 AUTO 52M
	D401	DZN4148---	DIODE	1N4148 AUTO 52M
	D402	DZN4148---	DIODE	1N4148 AUTO 52M
	D403	DZN4148---	DIODE	1N4148 AUTO 52M
	D405	DDZ5R1B--	DIODE ZENER	DZ5.1B
	D406	DZN4148---	DIODE	1N4148 AUTO 52M
⚠	D503	DDZ22BM---	DIODE ZENER	DZ22BM
	D506	D1JH45----	DIODE	1JH45 TPA1
	D512	D1JH45----	DIODE	1JH45 TPA1
	D513	DZN4148---	DIODE	1N4148 AUTO 52M
	D514	D1JH45----	DIODE	1JH45 TPA1
	D515	D1JH45----	DIODE	1JH45 TPA1
	D516	D1JH45----	DIODE	1JH45 TPA1
	D517	D1JH45----	DIODE	1JH45 TPA1
	D518	DZPD15BM--	DIODE	ZPD-15

LOC	PART-CODE	PART-NAME	PART-DESC
D519	DZPD15BM--	DIODE	ZPD-15
D520	DZPD15BM--	DIODE	ZPD-15
D521	DZPD15BM--	DIODE	ZPD-15
D522	DZN4148---	DIODE	1N4148 AUTO 52M
D523	DZN4148---	DIODE	1N4148 AUTO 52M
D602	DZN4148---	DIODE	1N4148 AUTO 52M
D603	D1JH45----	DIODE	1JH45 TPA1
R001	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J
R151	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R152	RD-24Z474J-	R CARBON FILM	1/4 470K OHM J
R153	RD-4Z123J-	R CARBON FILM	1/4 12K OHM J
R154	RD-2Z224J-	R CARBON FILM	1/2 220K OHM J
R155	RD-AZ390J-	R CARBON FILM	1/4 39 OHM J
R156	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R157	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R158	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J
R159	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J
R160	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R161	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R162	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R163	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R164	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R166	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R167	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R200	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R201	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R202	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R203	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R204	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R205	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R206	RD-AZ103J-	R CARBON FILM	1/6 102K OHM J
R207	RD-AZ103J-	R CARBON FILM	1/6 102K OHM J
R208	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R209	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R210	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R211	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R212	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R213	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R214	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R215	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R216	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
R217	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R218	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J
R219	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R220	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R221	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R222	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R223	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R224	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R225	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R226	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R227	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J
R228	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R229	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R230	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R231	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R232	RD-AZ184J-	R CARBON FILM	1/6 180K OHM J
R233	RD-AZ753J-	R CARBON FILM	1/6 75K OHM J
R234	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R235	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J
R236	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R237	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R238	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R239	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R240	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R241	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R242	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R243	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R244	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R245	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R246	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J
R247	RD-4Z106J-	R CARBON FILM	1/4 10M OHM J
R248	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R249	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R250	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R251	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R252	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J
R253	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R254	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R255	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R256	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R257	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R258	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R259	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R261	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R262	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R263	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R265	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R266	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J
R267	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R268	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R269	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R270	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R271	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R272	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R273	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R274	RD-AZ301J-	R CARBON FILM	1/4 300 OHM J
R275	RD-AZ301J-	R CARBON FILM	1/4 300 OHM J
R301	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R302	RD-AZ204J-	R CARBON FILM	1/6 200K OHM J
R303	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J
R304	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J
R305	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R306	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R307	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J
R308	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R309	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R310	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R311	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R312	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R313	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R314	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R315	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J
R316	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J
R317	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R318	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J
R319	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R321	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R322	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J
R323	85801052GY	WIRE COPPER	1/0.52 TIN COATING
R401	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R402	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R403	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J
R404	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J
R405	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R406	RD-4Z102J-	R CARBON FILM	1/41K OHM J
R407	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R408	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R409	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J
R410	RD-AZ684J-	R CARBON FILM	1/6 680K OHM J
R411	RD-AZ753J-	R CARBON FILM	1/6 75K OHM J
R412	RD-AZ751J-	R CARBON FILM	1/6 750 OHM J
R413	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R416	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R417	RD-2Z101J-	R CARBON FILM	1/2 100 OHM J
R418	RD-AZ152J-	R CARBON FILM	1/61.5K OHM J
R419	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R420	RD-2Z101J-	R CARBON FILM	1/2 100 OHM J
R421	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R423	RD-2Z122J-	R CARBON FILM	1/2 1.2K OHM J
R424	RD-2Z229J-	R CARBON FILM	1/2 12.2 OHM J
R425	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R426	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R427	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R428	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R429	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R430	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R431	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R432	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J
R433	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R434	RD-AZ1202J-	R CARBON FILM	1/6 2K OHM J
R436	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R437	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R438	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R439	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J
R440	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J
R441	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R442	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R443	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R444	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J
R445	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R446	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R447	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R448	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R501	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R502	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R503	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R504	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R505	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R506	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R507	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R508	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R509	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R511	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R512	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J
R513	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R514	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R515	RD-AZ274J-	R CARBON FILM	1/6 270K OHM J
⚠ R516	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
⚠ R517	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
⚠ R518	RD-AZ623J-	R CARBON FILM	1/6 62K OHM J
R519	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
⚠ R520	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
R521	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R522	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R523	RD-2Z102J-	R CARBON FILM	1/2 1K OHM J
R527	RD-4Z470J-	R CARBON FILM	1/4 47 OHM J
R535	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R536	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R537	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R538	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R542	RD-AZ243J-	R CARBON FILM	1/6 24K OHM J
R543	RD-2Z109J-	R CARBON FILM	1/2 1 OHM J
R545	RD-2Z563J-	R CARBON FILM	1/2 56K OHM J
R546	RD-2Z563J-	R CARBON FILM	1/2 56K OHM J
R547	RD-2Z563J-	R CARBON FILM	1/2 56K OHM J
R548	RD-2Z563J-	R CARBON FILM	1/2 56K OHM J
R549	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R550	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R551	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R552	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R553	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R554	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R555	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R556	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R557	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R558	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R559	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R560	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R561	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R562	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R563	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J
R564	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J
R566	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R567	RD-2Z103J-	R CARBON FILM	1/2 10K OHM J
R568	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R569	RD-AZ103J-	R CARBON FILM	1/2 10K OHM J
R571	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R572	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R573	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R574	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R575	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R576	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J
R577	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J
R578	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R579	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J
R580	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R581	RD-AZ913J-	R CARBON FILM	1/6 91K OHM J
R582	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R583	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R584	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R585	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R586	RD-AZ184J-	R CARBON FILM	1/6 180K OHM J
R587	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R588	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J
R589	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R590	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R591	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R592	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R593	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J
R594	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R595	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R596	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R597	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J
R598	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R599	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R601	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R602	RD-4Z242J-	R CARBON FILM	1/4 2.4K OHM J
R603	RD-4Z200J-	R CARBON FILM	1/4 20 OHM J
R604	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R605	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R606	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R607	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R608	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J
R609	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R610	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R611	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R612	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J
R613	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R614	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R615	RD-AZ913J-	R CARBON FILM	1/6 9K OHM J
R616	RD-AZ242J-	R CARBON FILM	1/6 2.4K OHM J
R617	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R618	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J
R619	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R620	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R621	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R622	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R623	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R624	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R625	RN-AZ2401F	R METAL FILM	1/6 2.4K OHM F
R626	RN-AZ2001F	R METAL FILM	1/6 2.0K OHM F
R627	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R628	RN-AZ7501F	R METAL FILM	1/6 7.50K OHM J
R629	RN-AZ2001F	R METAL FILM	1/6 2.0K OHM J
R630	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J
R631	RD-AZ2001F	R METAL FILM	1/6 2.0K OHM J
R632	RD-AZ2001F	R METAL FILM	1/6 2.0K OHM J
R633	RD-AZ6800F	R METAL FILM	1/6 680 OHM J
R634	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R635	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R636	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R637	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R638	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R639	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R641	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R642	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R643	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J
R644	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R645	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R646	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R647	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R648	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R649	RD-4Z122J-	R CARBON FILM	1/4 1.2K OHM J
R650	RD-4Z200J-	R CARBON FILM	1/4 20 OHM J
R651	RD-AZ6800F	R METAL FILM	1/6 680 OHM F

LOC	PART-CODE	PART-NAME	PART-DESC
R652	RD-AZ5601F	R METAL FILM	1/6 5.6K OHM F
R653	RD-2Z470J-	R CARBON FILM	1/2 47 OHM J
R655	RD-2Z104J-	R CARBON FILM	1/2 100K OHM J
R656	RD-2Z824J-	R CARBON FILM	1/2 820K OHM J
R657	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R658	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R659	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R660	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R661	RN-AZ2401F	R METAL FILM	1/6 2.4K OHM F
R663	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R664	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R665	RN-AZ2401F	R METAL FILM	1/6 2.4K OHM F
R666	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R667	RD-2Z560J-	R CARBON FILM	1/2 56 OHM J
R707	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
20020	PCVCM1J022	PCB VIDEO MANUAL AS	CMC-1703B
CV801	9979300007	SOCKET CRT	ISDS08S
CW801	4859234820	CONN WAFER	5268-13A
CW802	4859234620	CONN WAFER	5268-11A
C822	CMXM2A224J-	C MYLAR	100V 0.22MF J BULK
C893	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
IC801	1LM1281N--	IC VIDEO PREOAMP	LM1281N
IC803	1STV9424--	IC OSD	STV-9424
I802	1LM2419T--	IC VIDEO OUTPUT	LM2419T
I802A	9977022500	HEAT SINK 225	A1050P-H24 T=1.5
I802B	9976012100	SCREW SPECIAL	TT2 BIN 3*10 MFZN PW
SG892	ZEW295804A	SPARK GAP	S-23 1KV (LEAD 4.5M/M)
X801	5XE12R000E	CRYSTAL QUARTZ	HC-49/U 12.00000MHZ 30PPM
00020	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
00030	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
00040	9977238100	SHIELD COVER	SPTH-C T=0.3
00050	9977713400	SPACER CARD	NYLON 6.6 DASC-6N
00060	9977237100	SHIELD CASE	A1050P-H24 T=1.0
00070	9973515100	HOLDER NECK	FR-ABS GY-258A (94V-0)
00080	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
00090	9975830400	LABEL DHHS	ART PAPER 68*45
00100	9976811000	CLAMP NECK	SUS T=1.0

LOC	PART-CODE	PART-NAME	PART-DESC
00110	9970710103	CONN AS	35718-0810+1015AWG22=150
00120	9970710104	CONN AS	35750-0910+UL1015#22=150
00130	9970710105	CONN AS	35750-0910+1015AWG22=300
00140	9970710096	CONN AS	YFH800-2+UL1015AWG22=140
00150	9970710106	CONN AS	1015#22+OP 14 C=200
30020	PCVDJ0J022	PCB VIDEO ODD SHAPE	CMC-1703B
CW803	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
CW804	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
CW805	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
C811	CEXF2A470C	C ELECTRO	100V RUS 47MF (10X16) TP
C892	CCXB3D471K	C CERA	K2V B 470PF K (TAPPING)
R811	RS01Z103J-	R M-OXIDE FILM	1W 10K OHM J (TAPPING)
R841	RS01Z103J-	R M-OXIDE FILM	1W 10K OHM J (TAPPING)
R871	RS01Z103J-	R M-OXIDE FILM	1W 10K OHM J (TAPPING)
40010	PCVDJRJ022	PCB VIDEO RADIAL AS	CMC-1703B
BD801	5MBF3510R2	COIL BEAD	BFD3510R2F
C801	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C803	CCXF1H104Z	C CERA	50V F 0.1MF Z
C804	CCXF1H104Z	C CERA	50V F 0.1MF Z
C805	CCXF1H104Z	C CERA	50V F 0.1MF Z
C806	CCXF1H104Z	C CERA	50V F 0.1MF Z
C808	CEXF2A100C	C ELECTRO	RUS 100V 10MF 5*11
C831	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C833	CCXF1H104Z	C CERA	50V F 0.1MF Z
C834	CCXF1H104Z	C CERA	50V F 0.1MF Z
C835	CCXF1H104Z	C CERA	50V F 0.1MF Z
C838	CEXF2A100C	C ELECTRO	RUS 100V 10MF 5*11
C851	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C852	CCXF1H104Z	C CERA	50V F 0.1MF Z
C853	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
C854	CXCH1H470J	C CERA	50V CH 47PF J (TAPPING)
C855	CXCH1H470J	C CERA	50V CH 47PF J (TAPPING)
C856	CCXB1H101K	C CERA	50V B100PF K (TAPPING)
C857	CCXB1H181K	C CERA	50V B180PF K (TAPPING)
C858	CCXB1H101K	C CERA	50V B100PF K (TAPPING)
C859	CCXB1H331K	C CERA	50V B330PF K (TAPPING)
C861	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP

LOC	PART-CODE	PART-NAME	PART-DESC
C863	CCXF1H104Z	C CERA	50V F 0.1MF Z
C864	CCXF1H104Z	C CERA	50V F 0.1MF Z
C865	CCXF1H104Z	C CERA	50V F 0.1MF Z
C868	CEXF2A100C	C ELECTRO	RUS 100V 10MF 5*11
C871	CMXM2A103J	C MYLAR	100V 0.01MF J TP
C872	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)
C883	CCXF1H104Z	C CERA	50V F 0.1MF Z
C884	CCXF1H104Z	C CERA	50V F 0.1MF Z
C885	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C886	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C887	CCXF1H104Z	C CERA	50V F 0.1MF Z
C888	CCXF1H104Z	C CERA	50V F 0.1MF Z
C889	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C890	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C891	CEXE1H109C	C ELECTRO	50V RU 1MF (5X11) TP
C898	CEXE1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C899	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
EF801	5PF1BH330M	FILTER LC	CFI-06-B-1H-330M
EF802	5PF1BH470M	FILTER LC	CFI06B1H470M
EF831	5PF1BH330M	FILTER LC	CFI-06-B-1H-330M
EF832	5PF1BH470M	FILTER LC	CFI06B1H470M
EF861	5PF1BH330M	FILTER LC	CFI-06-B-1H-330M
EF862	5PF1BH470M	FILTER LC	CFI06B1H470M
EF863	5PF1BH681M	FILTER LC	CFI06B1H681MF
Q801	TZTC3202Y-	TR	KTC3202Y (AUTO) (1959Y)
Q802	TZTC3198Y-	TR	KTC3198Y (1815Y) (AUTO)
V801	RV6121103P	R SEMI FIXED	CCT 063BT 10K OHM B TAP
V831	RV6121103P	R SEMI FIXED	CCT 063BT 10K OHM B TAP
V861	RV6121103P	R SEMI FIXED	CCT 063BT 10K OHM B TAP
50010	PCVDJAJ022	PCB VIDEO AXIAL AS	CMC-1703B
A0001	9979800387	PCB VIDEO	T1.6*197*163 1703B
BD803	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
BD805	8580105GY	WIRE COPPER	1/0.52 TIN COATING
BD833	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
BD863	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
BD864	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
BD865	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)

LOC	PART-CODE	PART-NAME	PART-DESC
BD881	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
D801	DZN4148---	DIODE	1N4148 AUTO 52MM
D802	DZN4148---	DIODE	1N4148 AUTO 52MM
D803	DZN4148---	DIODE	1N4148 AUTO 52MM
D804	DZN4148---	DIODE	1N4148 AUTO 52MM
D831	DZN4148---	DIODE	1N4148 AUTO 52MM
D832	DZN4148---	DIODE	1N4148 AUTO 52MM
D833	DZN4148---	DIODE	1N4148 AUTO 52MM
D834	DZN4148---	DIODE	1N4148 AUTO 52MM
D861	DZN4148---	DIODE	1N4148 AUTO 52MM
D862	DZN4148---	DIODE	1N4148 AUTO 52MM
D863	DZN4148---	DIODE	1N4148 AUTO 52MM
D864	DZN4148---	DIODE	1N4148 AUTO 52MM
J896	5PB13857--	COIL BEAD	BI3857 (3.8X5.7)
L804	5CPZ338M02	COIL PEAKING	0.33UH 3.5MM M (LAL02TB)
L834	5CPZ338M02	COIL PEAKING	0.33UH 3.5MM M (LAL02TB)
L864	85801052GY	WIRE COPPER	1/0.52 TIN COATING
R801	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R802	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R803	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R804	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R805	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R806	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J
R807	RD-AZ913J-	R CARBON FILM	1/6 91K OHM J
R808	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R809	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J
R810	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J
R813	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R814	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J
R815	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R816	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J
R817	RD-AZ512J-	R CARBON FILM	1/6 5.1KK OHM J
R818	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R819	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R820	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R821	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R822	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R823	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R824	RD-AZ225J-	R CARBON FILM	1/6 2.2M OHM J
R825	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
R826	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R831	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R832	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R833	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R838	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R839	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J
R840	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J
R843	RD-2Z470J-	R CARBON COMP	1/2 47 OHM J
R844	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J
R845	RD-AZ683J-	R CARBON FILM	1/6 68K OHM J
R851	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R852	RD-AZ479J-	R CARBON FILM	1/6 4.7 OHM J
R853	RD-4Z106J-	R CARBON FILM	1/4 10M OHM J
R855	RD-AZ479J-	R CARBON FILM	1/6 4.7 OHM J
R861	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R862	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R863	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R868	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R869	RD-AZ390J-	R CARBON FILM	1/6 39 OHM J
R870	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J
R873	RD-2Z470J-	R CARBON FILM	1/2 47 OHM J
R891	RD-2Z109J-	R CARBON COMP	1/2 1 OHM J
R892	RD-2Z109J-	R CARBON COMP	1/2 1 OHM J
R895	RD-2Z109J-	R CARBON COMP	1/2 1 OHM J
R897	RD-2Z562J-	R CARBON COMP	1/2 5.6K OHM J
R898	RD-2Z564J-	R CARBON COMP	1/2 560K OHM J
SG801	DTSA201M--	DIA SURGE PROTECTOR	TSA-201M
SG831	DTSA201M--	DIA SURGE PROTECTOR	TSA-201M
SG861	DTSA201M--	DIA SURGE PROTECTOR	TSA-201M
ZD801	DDZ30BM---	DIODE ZENER	DZ30BM
ZD831	DDZ30BM---	DIODE ZENER	DZ30BM
ZD861	DDZ30BM---	DIODE ZENER	DZ30BM
20030	PCSMMIJ022	PCB POWER AS	CMC-1703B
C007	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P

	LOC	PART-CODE	PART-NAME	PART-DESC
	C008	CMXH2C152J	C MYLAR	BUP 1.6KV 1500PF J
	C014	CEXP2G331C	C ELECTRO	400V 330MF KMH 30X45
	C102	CEXF2E101C	C ELECTRO	RUS 250V 100MF 18*35.5
	C118	CH1RDE472M	C CERA AC	HIKB AC400V 4700PF M
	C120	CH1RDE472M	C CERA AC	HIKB AC 400C 4700PF M
⚠	D001	DRBV406---	DIODE BRIDGE	RBV-406
	D101	DRU3AM----	DIODE	RU3AM (HIGH SPEED)
	IC101	1SE140N---	IC AMP	SE140N
	L101	5MC0000003	COIL CHOKE	L-82
	L102	5MC0000003	COIL CHOKE	L-82
⚠	PH001	1TLP721GR-	IC PHOTO COUPLER	TLP721D4GR
	Q001	TCTC2073--	TR	KTC2073
	Q101	TKSB546Y--	TR	KSB546-Y
	Q102	TZTC3207--	TR	KTC3207 (AUTO)
	Q104	TKSB601Y--	TR	KSB601Y
	Q107	TKTD1351--	TR	KTD1351
	R003	RX05B560JE	R CEMENT	5W 56 OHM J BENCH 12.5MM
⚠	T001	5RM0000066	TRANS SMPS	DWT-49A1
	00010	9974112300	FRAME POWER	FR-ABS GY-258YA (94V-0)
	00020	7173301011	SCREW TAPPTITE	TT2 BIN 3X10 MFZN
	00030	97P4602100	WIRE SADDLE	NYLON 66, DASW-3N
	30005	PCHFSWJ022	HEAT SINK F AS	CMC-1703B
	SCR01	TTF341M---	SCR	TF-341M
	00010	9977010800	HEAT SINK D	A1050P-H24 EK
	00020	9976410500	HASFT	SWRM SN PLATE
	00030	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	30010	PCHKSWJ022	HEAT SINK AS	CMC-1703B
⚠	IC002	1STRS6708-	IC PJOWER STR-S6708	
	00100	9977018754	HEAT SINK 187	A1050P-H24 H=40
	00200	9976012100	SCREW SPECIAL	TT2 BIN 3*10 MFZN PW
	00300	9976410500	SHAFT	SWRM SN PLATE
	00400	9975823100	LABEL WARNING	PJOLYESTER T0.05
	30020	PCHLSWJ022	HEAT SINK L AS	CMC-1703B
	IC102	1K1A7812P1	IC REGULATOR	KIA7812PI
	00100	9977022400	HEAT SINK 224	A1050P-H24 T=1.5
	00200	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
	30030	PCHMSWJ022	HEAT SINK M AS	CMC-1703B

LOC	PART-CODE	PART-NAME	PART-DESC
IC103	1K1A7805P1	IC RGULATOR	KIA7805PI
00200	9977010800	HEAT SINK D	A1050P-H24 EK
00300	9976410500	SHAFT	SWRM SN PLATE
00400	9976012000	SCREW SPEICAL	TT2 BIN 3*8 MFZN PW
30000	[illegible]	POWER ODD AS	CMG-1703B-
CD2	485923302S	CONN WAFER	5267-09A STICK TYPE
CE2	485923282S	CONN WAFER	5267-07A STICK TYPE
CF21	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
CF22	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
C011	CEXF2C100C	C ELECTRO	RUS 160V 10MF 10*16
C103	CEXF2A331C	C ELECTRO	RUS 100V 330MF
C104	CEXF2C220C	C ELECTRO	RUS 160V 22MF 10*20
C106	CEXF1H331C	C ELECTRO	RUS 50V 330MF 10*20
C107	CEXF1H331C	C ELECTRO	RUS 50V 330MF 10*20
C111	CEXF1E471C	C ELECTRO	25V RUS 470MF (10X16) TP
C113	CEXF1E471C	C ELECTRO	25V RUS 470MF (10X16) TP
C115	CEXF1E471C	C ELECTRO	25V RUS 470MF (10X16) TP
C116	CEXF1E471C	C ELECTRO	25V RUS 470MF (10X16) TP
C119	CEXF1H221C	C ELECTRO	RUS 50V 220MF 10*16
D003	DRU1P----	DIODE	RU 1P (TAPPING)
D004	D1N4937GP-	DIODE	1N4937GP (TAPPING)
D005	D1N4937GP-	DIODE	1N4937GP (TAPPING)
D006	D1N4937GP-	DIODE	1N4937GP (TAPPING)
D007	D1N4937GP-	DIODE	1N4937GP (TAPPING)
D008	DRF1------	DIODE	RF-1
D102	DRF1------	DIODE	RF-1
D103	DRF1------	DIODE	RF-1
D104	DRU3M----	DIODE	RU 3M (TAPPING)
D105	DRU2M----	DIODE	RU-2M
D107	DRU3YX----	DIODE	RU3YX
D108	DRF1------	DIODE	RF-1
D109	DRU3M----	DIODE	RU 3M (TAPPING)
D110	DRU3YX----	DIODE	RU3YX
G100	4857417500	TERM PIN	DA-IB0214 (D2.3/DY PIN)
R002	RS02Y563J-	R M-OXIDE FILM	2W 56K OHM J (TAPPING)
R007	RS02Y563J-	R M-OXIDE FILM	2W 56K OHM J (TAPPING)
R008	RS02Y563J-	R M-OXIDE FILM	2W 56K OHM J (TAPPING)

LOC	PART-CODE	PART-NAME	PART-DESC
R009	RW01Z308JN	R WIRE WOUND	1W 0.30 OHM J NON-INDUCT
R010	RS01Y270J-	R M-OXIDE FILM	1W 27 OHM J (TAPPING)
R013	RS01Z563J-	R M-OXIDE FILM	1W 56K OHM J (TAPPING)
R101	RS02Y330J-	R M-OXIDE FILM	2W 33 OHM J (TAPPING)
R104	RS02Y153J-	R M-OXIDE FILM	2W 15K OHM J (TAPPING)
R112	RS01Y150J-	R M-OXIDE FILM	1W 15 OHM J (TAPPING)
R117	RS02Y103J-	R M-OXIDE FILM	2W 10K OHM J (TAPPING)
R121	RS02Y109J-	R M-OXIDE FILM	2W 1K OHM J (TAPPING)
R122	RS02Y109J-	R M-OXIDE FILM	2W 1K OHM J (TAPPING)
40010	PCSMRJ022	PCB POWER AXIAL AS	CMC-1703B
C006	CEXF2A100C	C ELECTRO	RUS 100V 10MF 5*11
C009	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C010	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)
C012	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C101	CCXB3A471K	C CERA	1KV B 470PF K (T)
C105	CMXM2A104J	C MYLAR	100V 0.1MF J TP
C108	CCXB3A471K	C CERA	1KV B 470PF K (T)
C109	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C110	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C112	CEXF1C331C	C ELECTRO	RUS 16V 330MF
C114	CCXB3A471K	C CERA	1KV B 470PF K (T)
C117	CMXM2A104J	C MYLAR	100V 0.1MF J TP
Q002	TZTC3207--	TR	KTC3207 (AUTO)
Q103	TZTC3203Y-	TR	KTC3203Y (2120Y)
Q105	TZTC3206Y-	TR	KTC3206Y (2229Y)
Q106	TZTC3206Y-	TR	KTC3206Y (2229Y)
Q108	TZTC3203Y-	TR	KTC3203Y (2120Y)
50010	PCSMJAJ022	PCB POWER AXIAL AS	CMC-1703B
A0001	9979800392	PCB POWER	T1.6*105*197 1703B
D009	DDZ7R5BM--	DIODE ZENER	DZ7.5BM
D106	DDZ7R8BM--	DIODE ZENER	DZ6.8BM
R004	RD-4Z474J-	R CARBON FILM	1/4 470K OHM J
R005	RD-4Z223J-	R CARBON FILM	1/4 22K OHM J
R006	RD-2Z511J-	R CARBON FILM	1/2 510 OHM J
R011	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R012	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R014	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R015	RD-4Z474J-	R CARBON FILM	1/4 470K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R016	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R102	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R103	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J
R105	RD-4Z472J-	R CARBON FILM	1/4 4.7K OHM J
R107	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R108	RD-4Z471J-	R CARBON FILM	1/4 470 OHM J
R109	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R110	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R111	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R113	RD-4Z301J-	R CARBON FILM	1/4 300 OHM J
R115	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R116	RD-AZ471J-	R CARBON FILM	1/6 1470 OHM J
R118	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J
R119	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R120	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R125	RD-2Z565J-	R CARBON FILM	1/2 5.6M OHM J
R126	RD-2Z565J-	R CARBON FILM	1/2 5.6M OHM J
00030	9975417700	LABEL RATING	PE T=0.1*78*98 DW
10030	PCPKCPJ022	PACKING AS	CMC-1703B
00010	9978212800	BAG POLY	P.E FILM T0.03X900X900
00020	9978128600	CUSHION L/R	EPS 125*547/478
00030	9978619800	MANUAL INSTRUCTION	CMC-1703B DW
00040	9978212900	BAG POLY	PE FIL, T0.02X250X350
00060	9978030700	BOX CARTON	DW-3 502*552*488 (INSIDE)
00090	9970790086	CABLE SIGNAL AS	DDC1-2990/93+CORE*2=1800
00100	W1173D831	CORD POWER	1 SVT 3X18AWG 1.8M IV
00010	99729184A0	BASE STANS ASS'Y	CMC-1703B GY-258A AS
00500	9978212601	BAG POLY	PE FILM T0.05X375X360